

# **Miapoxy 101 Epoxy Laminating Resin**

#### **Section 1 Identification**

#### **Product identifiers**

Product name: Miapoxy 101 Epoxy Laminating Resin

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

Identified uses: Epoxy constituent

Details of the supplier of the safety data sheet

Freeman Manufacturing & Supply Company

1101 Moore Road, Avon, OH 44011

Phone (440) 934-1902 FAX (440) 934-7200 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, H615

Serious Eye Damage/Eye Irritation, Category 2, H319

Skin Sensitization, Category 1, H317

Chronic Aquatic Toxicity, Category 2, H411

### GHS Label elements, including precautionary statements





Warning

#### **Hazard Statements**

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effect.

#### **Precautionary Statements**

**Prevention:** P264 Wash hands thoroughly after handling.

P273 Avoid release to the environment.

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

Response: P301+P312 IF SWALLOWED: Call POISON CETNER and/or doctor if you feel unwell.

P391 Collect spillage. P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P333+P313 If skin irritation or rash occurs: Get medical attention.

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

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.

P337+P313 If eye irritation persists: Get medical attention.

Storage: P403+P233 Store in a well-ventilated place. Keep container tightly closed.

**Disposal:** P501 Dispose of contents and containers in accordance with local, regional and international

regulations.

### Hazards not otherwise classified (HNOC) or not covered by GHS

None known



# **Miapoxy 101 Epoxy Laminating Resin**

# Section 3 Composition/Information on Ingredients

Ingredient Name	CAS Number	Concentration (%)
Bisphenol A Epoxy Resin	25068-38-6	70-90
Alkyd Glycidyl Ether.	68609-97-2	10-20

Amounts specified are typical and do not represent a specification. Remaining components are non-hazardous, and/or present at amounts below reportable limits.

#### **Section 4 First-Aid Measures**

### **Description of necessary first-aid measures**

**INHALATION:** If affected, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.

**SKIN:** Immediately remove contaminated clothing and shoes. Wash the affected area with plenty of soap and water until no evidence of the chemical remains (at least 15-20 minutes).

Launder clothing before reuse. Get medical attention if symptoms occur.

**EYES:** Immediately flush eyes with plenty of clean water for an extended time, not less than fifteen (15) minutes. Flush longer if there is any indication of residual chemical in the eye. Ensure adequate flushing of the eyes by separating the eyelids with fingers and roll eyes in a circular motion.

**INGESTION:** Do not induce vomiting. Never give anything by mouth to an unconscious person.

Rinse out the mouth with water. Get medical attention immediately.

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

Irritation. Pre-existing skin problems may be aggravated by prolonged or repeated contact. See section 11 for additional information.

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

Treat symptomatically.

### **Section 5 Fire-Fighting Measures**

### Extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Do not use high volume water jet.

### Unusual fire & explosion hazards

Product is not considered a fire hazard, but will burn if ignited. Closed container may rupture (due to build up in pressure) when exposed to extreme heat.

### **Hazardous combustion products**

Irritating or toxic substances may be emitted upon burning, combustion or decomposition.

See Section 10 Hazardous decomposition products for additional information.

### Advice for firefighters

Wear self-contained breathing apparatus (SCBA) equipped with a full face piece and operated in a pressure-demand mode (or other positive pressure mode) and approved protective clothing. Personnel without suitable respiratory protection must leave the area to prevent significant exposure to hazardous gases from combustion, burning or decomposition. In an enclosed or poorly ventilated area, wear SCBA during cleanup immediately after a fire as well as during the attack phase of firefighting operations. See section 9 for additional information.

### **Section 6 Accidental Release Measures**

### Personal precautions, protective equipment and emergency procedures

See Section 8 for recommendations on the use of personal protective equipment. If spilled in an enclosed area, ventilate. Eliminate ignition sources. Personal Protective Equipment must be worn.



# **Miapoxy 101 Epoxy Laminating Resin**

#### Section 6 Accidental Release Measures

### **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

Stop leak if without risk. Move containers from spill area. Contain by diking with sand, earth or other non-combustible material. Wear proper personal protective clothing and equipment. Absorb spill with an inert material. Place into labeled, closed container; store in safe location to await disposal. Change contaminated clothing and launder before reuse.

### **Section 7 Handling and Storage**

### Precautions for safe handling

As with any chemical product, use good laboratory/workplace

procedures. Do not cut, puncture, or weld on or near the container. Use under well-ventilated conditions. Wash thoroughly after handling this product. Always wash up before eating, smoking or using the facilities. Avoid eye and skin contact. Avoid inhalation of aerosol, mist, spray, fume or vapor. Avoid drinking, tasting, swallowing or ingesting this product. Wash contaminated clothing before reuse.

Discard shoes contaminated with this product.

# Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flames. Store dry at 15-40°C, under well-ventilated conditions. Store this material away from incompatible substances (see section 1 0). Do not store in open, unlabeled or mislabeled containers. Keep container closed when not in use. Empty container contains residual product which may exhibit hazards of product. Do not reuse empty container without commercial cleaning or reconditioning.

### **Section 8 Exposure Controls/Personal Protection**

#### **Components with workplace control parameters**

Occupational Exposure Limits: No data available

### **Exposure controls**

**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

**Eye/face protection:** Safety glasses or goggles required.

**Skin protection:** Wear chemical resistant (impervious) gloves; PVC, neoprene, nitrile rubber, EVAL, butyl rubber. Wear chemical resistant protective clothing. Use good laboratory/

workplace procedures including personal protective clothing: lab coat and protective gloves.

**Respiratory protection:** Wear an approved respirator (e.g., an organic vapor respirator, a full-face air purifying respirator for organic vapors, or a self-contained breathing apparatus) whenever exposure to aerosol, mist, spray, fume or vapor exceed the applicable exposure limit(s) of any chemical substance listed in this SDS.

### **General Hygienic Practices**

Avoid breathing vapor or mist. Avoid contamination of food, beverages, or smoking materials. Wash thoroughly after handling, and before eating, drinking or smoking. Remove contaminated clothing promptly and clean thoroughly before reuse.



# **Miapoxy 101 Epoxy Laminating Resin**

### **Section 9 Physical and Chemical Properties**

AppearanceAmber viscous liquidUpper/lower flammabilityNo data availableOdorSlight epoxy-likeVapor pressure<1mm Hg (20°C)</td>Odor thresholdNo data availableVapor densityNo data available

pH No data available
 Melting point
 No data available
 Water solubility
 Negligible

**VOC Content** No data available Coefficient: n-octanol/ water No data available **Auto-ignition temperature Initial boiling point** No data available No data available Flash point (closed cup) >94°C (>200°F) Viscosity, dynamic 700 mPa (25°C) No data available **Evaporation rate Explosive properties** No data available Flammability (solid, gas) No data available Oxidizing properties No data available

# **Section 10 Stability and Reactivity**

**Reactivity** Exothermic reactions including polymerization may occur in contact

with amines, strong acids, strong bases, alcohols, strong oxidizing

agents and excessive heat.

**Chemical stability** Stable under recommended storage conditions

**Possibility of hazardous reactions** Exothermic reactions including polymerization may occur in

contact with amines, strong acids, strong bases, alcohols, strong

oxidizing agents and excessive heat.

**Conditions to avoid** Excessive heat and ignition sources.

**Incompatible materials** Avoid strong acids, bases, amines, and oxidizing agents.

**Hazardous decomposition products** Thermal decomposition may produce smoke, carbon monoxide, carbon

dioxide, aldehydes and other products of incomplete combustion.

Phenolics.

# **Section 11 Toxicological Information**

Acute oral toxicityNo data available on the productAcute inhalation toxicityNo data available on the productAcute dermal toxicityNo data available on the product

**Skin corrosion/irritation** Irritating to skin

Serious eye damage/eye irritationCauses serious eye irritantRespiratory or skin sensitizationMay cause skin sensitizationGerm cell mutagenicityNo data available on the productCarcinogenicityNo data available on the product

**Reproductive toxicity**No data available on the product

Specific target organ toxicity

- single exposure
 - repeated exposure
 No data available on the product
 No data available on the product

### **Section 12 Ecological Information**

Toxicity
Persistence and degradability
Bioaccumulative potential
Mobility in soil
Results of PBT & vPvB assessment
Harmful to aquatic life
No data available
No data available
No data available

Date of Preparation: August 2, 2022



# **Miapoxy 101 Epoxy Laminating Resin**

### **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**

Hazard Class: 9

**Shipping Name:** Environmentally hazardous substance, liquid, N.O.S. (Epoxy Resin)

ID No.: UN 3082 Packing Group: III Label: Class 9 ERG Code: 171

Marine pollutant: Yes (Epoxy Resin)

### **Section 15 Regulatory Information**

### Safety, Health and Environmental Regulations

**EU Regulation (EC) No. 1907/2006 (REACH):** Annex XIV- List of substances subject to authorization, Substances of very high concern: None of the components are listed

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles: None of the components are listed

SARA 311/312: None

**SARA 313:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**California Proposition 65:** This product does not contain chemicals which are known to the State of California to cause cancer or other reproductive harm.

For more information, go to www.P65Warnings.ca.gov.

### **Inventories**

**U.S. Toxic Substances Control Act TSCA:** all intentionally added components are either listed or compliant **Canadian Domestic Substances List (DSL):** all intentionally added components are either listed or compliant **European Inventory of Existing Chemical Substances (EINECS):** all intentionally added components are either listed or compliant

#### **Section 16 Other Information**

#### 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.



# Mia 197 Epoxy Hardener

#### **Section 1 Identification**

#### **Product identifiers**

Product name: Mia 197 Epoxy Hardener

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

Identified uses: Epoxy constituent

# Details of the supplier of the safety data sheet

Freeman Manufacturing & Supply Company

1101 Moore Road, Avon, OH 44011

Phone (440) 934-1902 FAX (440) 934-7200 24 Hour emergency telephone number: CHEMTREC (800) 424-9300

#### **Section 2 Hazards Identification**

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

Acute toxicity, dermal: Category 4, H312 Acute toxicity, oral: Category 4, H302 Skin Corrosion: Category 1, H314 Eye Damage: Category 1, H318 Skin sensitization: Category 1, H317

Hazardous to the aquatic environment: Chronic Category 2, H411

Acute toxicity, inhalation: Category 4, H332 Toxic to reproduction: Category 2, H631, H335

# GHS Label elements, including precautionary statements









Danger

#### **Hazard Statements**

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H361 Suspected of damaging fertility or the unborn child.

H411 Toxic to aquatic life with long lasting effects.

### **Precautionary Statements**

Prevention: P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe mists.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

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

P273 Avoid release to the environment.

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



# Mia 197 Epoxy Hardener

#### **Section 2 Hazards Identification**

**Response:** P301+P330+P331+P312 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call POISON CETNER and/or doctor if you feel unwell.

P303+P361+P364+P353+P352 IF ON SKIN (or hair): Take off immediately all contaminated clothing and wash before reuse. Rinse skin with water/shower. Wash with plenty of soap and water.

P333+P313 If skin irritation or rash occurs: Get medical attention.

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.

P308+P313 IF exposed or concerned: Get medical attention.

P391 Collect spillage.

**Storage:** P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up. **Disposal:** P501 Dispose of contents and containers in accordance with local, regional and international regulations.

### Hazards not otherwise classified (HNOC) or not covered by GHS

None known

# **Section 3 Composition/Information on Ingredients**

Ingredient Name	CAS	Concentration (%)
	Number	
Tetraethylenepentamine	112-57-2	46-60
4,4'-isopropylidenediphenol	80-05-7	30-50
Diethylenetriamine	111-40-0	<20
2,4,6-Tris(dimethylaminomethyl)phenol	90-72-2	<20

Amounts specified are typical and do not represent a specification. Remaining components are non-hazardous, and/or present at amounts below reportable limits.

### **Section 4 First-Aid Measures**

### Description of necessary first-aid measures

**INHALATION:** If affected, remove to fresh air. If breathing is difficult, give oxygen.

If not breathing, give artificial respiration.

**SKIN:** Immediately remove contaminated clothing and shoes. Wash the affected area with plenty of soap and water until no evidence of the chemical remains (at least 15-20 minutes).

Launder clothing before reuse. Get medical attention immediately.

**EYES:** Immediately flush eyes with plenty of clean water for an extended time, not less than fifteen (15) minutes. Flush longer if there is any indication of residual chemical in the eye. Ensure adequate flushing of the eyes by separating the eyelids with fingers and roll eyes in a circular motion. Get medical attention immediately.

**INGESTION:** Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse out the mouth with water. Get medical attention immediately.

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

Burns. Irritation. Pre-existing skin problems may be aggravated by prolonged or repeated contact. Persons with sensitive airways (e.g., asthmatics) may react to vapors. See section 11 for additional information.

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

Treat symptomatically.



# Mia 197 Epoxy Hardener

# **Section 5 Fire-Fighting Measures**

### Extinguishing media

Suitable: Use water spray, foam, dry chemical, or carbon dioxide.

Unsuitable: None known
Unusual fire & explosion hazards

Product is not considered a fire hazard, but will burn if ignited. Closed container may rupture (due to build up in pressure) when exposed to extreme heat.

### **Hazardous combustion products**

Irritating or toxic substances may be emitted upon burning, combustion or decomposition. See Section 10 Hazardous decomposition products for additional information.

# Advice for firefighters

Wear self-contained breathing apparatus (SCBA) equipped with a full face piece and operated in a pressure-demand mode (or other positive pressure mode) and approved protective clothing. Personnel without suitable respiratory protection must leave the area to prevent significant exposure to hazardous gases from combustion, burning or decomposition. In an enclosed or poorly ventilated area, wear SCBA during cleanup immediately after a fire as well as during the attack phase of firefighting operations. See section 9 for additional information.

### **Section 6 Accidental Release Measures**

# Personal precautions, protective equipment and emergency procedures

See Section 8 for recommendations on the use of personal protective equipment. If spilled in an enclosed area, ventilate. Eliminate ignition sources. Personal Protective Equipment must be worn.

### **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

Stop leak if without risk. Move containers from spill area. Contain by diking with sand, earth or other non-combustible material. Wear proper personal protective clothing and equipment. Absorb spill with an inert material. Place into labeled, closed container; store in safe location to await disposal. Change contaminated clothing and launder before reuse.

# **Section 7 Handling and Storage**

#### Precautions for safe handling

As with any chemical product, use good laboratory/workplace procedures. Do not cut, puncture, or weld on or near the container. Use under well-ventilated conditions. Wash thoroughly after handling this product. Always wash up before eating, smoking or using the facilities. Avoid eye and skin contact. Avoid inhalation of aerosol, mist, spray, fume or vapor. Avoid drinking, tasting, swallowing or ingesting this product. Wash contaminated clothing before reuse.

Discard shoes contaminated with this product.

# Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flames. Store dry at  $15-40^{\circ}$ C, under well-ventilated conditions. Store this material away from incompatible substances (see section 1 0). Do not store in open, unlabeled or mislabeled containers. Keep container closed when not in use. Empty container contains residual product which may exhibit hazards of product. Do not reuse empty container without commercial cleaning or reconditioning.



# Mia 197 Epoxy Hardener

# **Section 8 Exposure Controls/Personal Protection**

# **Components with workplace control parameters Occupational Exposure Limits**

CHEMICAL NAME	CAS NUMBER	ACGIH-TWA	ACGIH-STEL
Tetraethylenepentamine	112-57-2	Not available	Not available
4,4'-isopropylidenediphenol	80-05-7	Not available	Not available
Diethylenetriamine	111-40-0	1 ppm	Not available
2,4,6-Tris(dimethylaminomethyl)phenol	90-72-2	Not available	Not 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

**Eye/face protection:** Full face shield with safety glasses or goggles underneath required.

**Skin protection:** Wear chemical resistant (impervious) gloves; PVC, neoprene, nitrile rubber, EVAL,

butyl rubber. Wear chemical resistant protective clothing. Use good laboratory/

workplace procedures including personal protective clothing: lab coat and protective gloves.

**Respiratory protection:** Wear an approved respirator (e.g., an organic vapor respirator, a full-face air purifying respirator for organic vapors, or a self-contained breathing apparatus) whenever exposure to aerosol, mist, spray, fume or vapor exceed the applicable exposure limit(s) of any chemical substance listed in this SDS.

### **General Hygienic Practices**

Avoid breathing vapor or mist. Avoid contamination of food, beverages, or smoking materials. Wash thoroughly after handling, and before eating, drinking or smoking. Remove contaminated clothing promptly and clean thoroughly before reuse.

### **Section 9 Physical and Chemical Properties**

Appearance	Amber liquid	Upper/lower flammability	No data available
Odor	Amine, fish-like	Vapor pressure	<0.75 mm Hg (20°C)
Odor threshold	No data available	Vapor density	No data available
рН	No data available	Relative density	1.05
Melting point	No data available	Water solubility	Soluble
% Volatile by weight	No data available	Coefficient: n-octanol/ water	No data available
Initial boiling point	No data available	Auto-ignition temperature	No data available
Flash point (closed cup)	>100°C (>212°F)	Viscosity, dynamic	1,650 cP (25°C)
<b>Evaporation rate</b>	No data available	Explosive properties	No data available
Flammability (solid, gas)	No data available	Oxidizing properties	No data available

### **Section 10 Stability and Reactivity**

#### Reactivity Exothermic reactions including polymerization may occur in contact

with strong acids, strong bases, alcohols, strong oxidizing agents and

excessive heat.



# Mia 197 Epoxy Hardener

### Section 10 Stability and Reactivity continued

**Chemical stability** Stable under recommended storage conditions

**Possibility of hazardous reactions** Exothermic reactions including polymerization may occur in

contact with strong acids, strong bases, alcohols, strong oxidizing

agents and excessive heat.

**Conditions to avoid** Excessive heat and ignition sources.

**Incompatible materials** Avoid strong acids, bases, and oxidizing agents.

Hazardous decomposition products Thermal decomposition may produce smoke, carbon monoxide,

carbon dioxide, aldehydes, oxides of nitrogen and other products of

incomplete combustion.

### **Section 11 Toxicological Information**

**Information on the likely routes of exposure:** Eyes, skin, inhalation and ingestion. **Symptom related to the physical, chemical and toxicological characteristics** 

**Eves** Causes serious eye damage. Causes eye burns.

**Skin** Harmful in contact with skin. Causes severe skin burns.

May cause allergic skin reaction. Repeated or prolonged contact may

cause skin irritation and dermatitis.

**Inhalation** Harmful if inhales. Exposure to vapors or mists may cause severe

irritation and burns of the nose, throat and respiratory tract. Harmful if swallowed. Ingestion may cause severe irritation and

burns of the mouth, throat and digestive tract.

Delayed and immediate effects, chronic effects from short and long-term exposure

Suspected of damaging fertility or the unborn child

**Acute toxicity** 

**Ingestion** 

CHEMCIAL NAME	LC50 INHALATION (RAT)	LD50 ORAL (RAT)	LD50 DERMAL (RABBIT)
Tetraethylenepentamine	Not available	Not available	Not available
4,4'-isopropylidenediphenol	Not available	>2000 mg/kg	>2000 mg/kg
Diethylenetriamine	Not available	1080 - 2330 mg/kg	672 - 1240 mg/kg
2,4,6- Tris(dimethylaminomethyl)phenol	Not available	2,169 mg/kg	Not available

Skin corrosion/irritationSkin corrosion – Category 1Serious eye damage/eye irritationEye damage – Category 1Respiratory or skin sensitizationSkin sensitization – Category 1Germ cell mutagenicityNo data available on the productCarcinogenicityNo data available on the product

**Reproductive toxicity** Toxic to reproduction – Category 2

Specific target organ toxicity

- single exposure
 - repeated exposure
 Aspiration hazard
 No data available on the product
 No data available on the product



# Mia 197 Epoxy Hardener

# **Section 12 Ecological Information**

# **Toxicity**

CHEMICAL NAME	TEST	SPECIES	RESULT
Tetraethylenepentamine	Not available		
4,4'-isopropylidenediphenol	LC50 (96 hr)	Fish	7.5 mg/L
	EC50 (48 hr)	Daphnia	3.9 – 10.2 mg/L
	EC50 (96)	Algae	2.5 – 3.1 mg/L
Diethylenetriamine	Not available		
2,4,6-	LC50 (24 hr)	Rainbow Trout	222 mg/L
Tris(dimethylaminomethyl)phenol	EC50 (96 hr)	Grass Shrimp	718 mg/L
	EC50 (72 hr)	Scenedesmus Subspicatus	84 mg/L

### Persistence and degradability

CHEMICAL NAME	TEST	PERIOD	RESULT
Tetraethylenepentamine	Not available		
4,4'-isopropylidenediphenol	EU EC C.4-A Biodegradation:	28 Days	1 – 2%
	Determination of the "Read"		
	Biodegradability: Dissolved Organic		
	Carbon (DOC) Die-Away Test		
Diethylenetriamine	Not available		
2,4,6-	Not available		
Tris(dimethylaminomethyl)phenol			

# **Bioaccumulative potential**

No data available

### Mobility in soil

No data available

### Results of PBT & vPvB assessment

No data available

### **Section 13 Disposal Considerations**

Dispose of unused contents (incineration) in accordance with national and local regulations. Dispose of container in accordance with national and local regulations. Ensure the use of properly authorized waste management companies, where appropriate. See section 8 for recommendations on the use of personal protective equipment.

# **Section 14 Transport Information**

# DOT/IMDG/IATA

UN Number: UN2079

Proper Shipping Name: Diethylene Mixture

Hazard Class: 8
Packing Group: II
Environmental Hazards
Marine Pollutant: Yes

Mailie Foliutalit. 165

Hazardous Substance (USA): No

**Label for Conveyance:** 





# Mia 197 Epoxy Hardener

### **Section 15 Regulatory Information**

#### REACH

Annex XIV List of substances subject to authorization, substances of very high concern: None of the components are listed.

Annex XVII Restriction on the manufacture, placing on the market and use of certain dangerous substances, mixtures, and articles: None of the components are listed.

#### Chemical Inventories

**DSL:** All intentionally added components are either listed or are otherwise compliant with the regulation.

**NDSL:** One or more components: 1) there is no listing on the public inventory; 2) no information is available; or 3) the component has not been reviewed.

**EINECS**: All intentionally added components are either listed or are otherwise compliant.

**ELINCS:** One or more components: 1) there is no listing on the public inventory; 2) no information is available; or 3) the component has not been reviewed.

TSCA: All intentionally added components are either listed or are otherwise compliant.

# Superfund Amendments and Reauthorization Act of 1986 Title III (SARA) Section 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

# Superfund Amendments and Reauthorization Act of 1986 Title III (SARA) Section 313

4,4'-Isopropylidenediphenol (CAS 80-05-7)

### California Proposition 65

**WARNING:** ⚠ 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**

### Disclaimer

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