

**Section 1 Identification**

**Product identifiers**

Product name: Freeman 945 Resin

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

Identified uses: Epoxy resin

**Details of the supplier of the safety data sheet**

Freeman Manufacturing and Supply Company  
1101 Moore Road, Avon, OH 44011  
Telephone (440) 934-1902

HMIS	
H	3
F	1
R	0
PPE Sec. 8	

**24 Hour emergency telephone number: CHEMTREC (800) 424-9300, Customer Number 8849**

**Section 2 Hazards Identification**

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

Serious Eye Damage/Eye Irritation, Category 1  
Skin Sensitization, Category 1  
Skin Corrosion/Irritation, Category 2  
Acute Aquatic Toxicity, Category 2  
Chronic Aquatic Toxicity, Category 2

**GHS Label elements, including precautionary statements**



Signal word      Danger

**Hazard Statements**

Causes serious eye damage  
Causes skin irritation.  
May cause an allergic skin reaction.  
Toxic to aquatic life with long lasting effect.

**Precautionary Statements**

**Prevention**

Keep container tightly closed when not in use.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Wear protective clothing/gloves/eye protection/face protection.  
Wash skin thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Contaminated clothing should not be allowed out of the workplace.  
Avoid release to the environment.

**Response**

If on skin: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.  
If in eyes: Rinse continuously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. If eye irritation persists: Get medical advice/attention.

**Section 2 Hazards Identification** continued

**Storage**

Store in a well-ventilated place. Keep cool.

**Disposal**

Dispose of contents and container to an appropriate waste site in accordance with local and national regulations.

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

None known

**Section 3 Composition/Information on Ingredients**

Ingredient Name	CAS Number	Concentration (%)
Aluminium	7429-90-5	30 - 50
Bisphenol A epoxy resin	25068-38-6	30 - 50
Epoxy phenol novolac resin	28064-14-4	10 - 20
1,4-Butanediol diglycidyl ether	2425-79-8	5 - 10
4-t-Butylphenyl glycidyl ether	3101-60-8	1 - 2.5
Quartz (SiO <sub>2</sub> )	14808-60-7	0.1 - 1

**Section 4 First Aid Measures**

**Description of first aid measures**

**If inhaled**

Move person into fresh air. Get medical attention if symptoms occur.

**In case of skin contact**

Wash off with soap and plenty of water. Get medical attention if symptoms occur.

**In case of eye contact**

Flush eyes with water for at least 15 minutes. Get medical attention immediately. Continue rinsing eyes during transport to hospital. Protect unharmed eye.

**If swallowed**

Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Provided the patient is conscious, wash out mouth with water. Get medical attention immediately.

**Notes to physician:** Symptomatic treatment and supportive therapy as indicated.

**Section 5 Fire-Fighting Measures**

**Extinguishing media**

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Unsuitable extinguishing media: High volume water jet.

**Special hazards arising from the substance or mixture**

Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer, or drain. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

**Hazardous thermal decomposition products**

Carbon dioxide, carbon monoxide

**Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**Section 6 Accidental Release Measures**

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

Put on appropriate personal protective equipment. If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.

**Environmental precautions**

Avoid contact with soil, waterways, drains, and sewers. Inform relevant authorities if the product has caused environmental pollution. May be harmful to the environment if released in large quantities. Collect spillage.

**Methods and materials for containment and cleaning up**

Stop leak if without risk. Move containers from spill area and approach release from upwind. Prevent entry into sewers, water courses, basements, or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material and place in closed container for disposal according to local regulations.

**Section 7 Handling and Storage**

**Precautions for safe handling**

Do not get in eyes or on skin/clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Provide appropriate exhaust ventilation. Keep in original container or an approved alternative and keep tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Conditions for safe storage, including any incompatibilities**

Store at ambient temperatures in closed containers in a well-ventilated area, away from chemical incompatibilities. Store locked up and sealed to prevent leakage.

**Section 8 Exposure Controls/Personal Protection**

**Components with workplace control parameters**

Ingredient	OSHA		ACGIH	
	PEL	STEL	TWA	STEL
Aluminum	15 mg/m <sup>3</sup> (total dust)	Not established	15 mg/m <sup>3</sup> (total dust)	Not established

**Exposure controls**

**Appropriate engineering controls**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mists and/or vapors below the recommended exposure limits.

**Personal protective equipment**

**Eye/face protection**

Use chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required.

**Skin protection**

**Hand protection**

Use impervious gloves. Consult glove manufacturer for suitable gloves. Contaminated gloves should be replaced.

**Body protection**

Prevent skin contact when handling material.

**Section 8 Exposure Controls/Personal Protection**

**Respiratory protection**

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Safety stations**

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

**General hygienic practices**

Avoid breathing vapor or mist. Wash thoroughly after handling materials. Avoid contamination of food, beverages, or smoking. Clean contaminated clothing thoroughly before reuse.

**Section 9 Physical and Chemical Properties**

<b>Appearance</b>	Gray liquid
<b>Odor</b>	Mild
<b>Odor threshold</b>	No data available
<b>pH</b>	No data available
<b>Percent volatile materials</b>	3-7
<b>Total Organics</b>	>99%
<b>Freezing point</b>	No data available
<b>Boiling point</b>	>176°C (>350°F)
<b>Flash point (closed cup)</b>	>149°C (>300°F)
<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>	0.01333 hPa (25°C)
<b>Relative vapor density</b>	No data available
<b>Relative density (g/cc)</b>	1.5
<b>Product density (lb/gal)</b>	12.43
<b>Water Solubility</b>	Negligible
<b>Coefficient: n-octanol/water</b>	No data available
<b>Auto-ignition temperature</b>	No data available
<b>Decomposition temperature</b>	No data available
<b>Viscosity</b>	No data available
<b>Explosive properties</b>	No data available
<b>Oxidizing properties</b>	No data available
<b>VHAP Content</b>	None

**Section 10 Stability and Reactivity**

**Reactivity**

Stable under recommended storage conditions.

**Chemical stability**

No decomposition if stored and applied as directed.

**Possibility of hazardous reactions**

None known.

**Section 10 Stability and Reactivity continued**

**Conditions to avoid and incompatible materials**

No specific data.

**Hazardous decomposition products**

Thermal oxidative decomposition can produce carbon oxides.

**Section 11 Toxicological Information**

**Information on toxicological effects**

<b>Acute oral toxicity</b>	LD50 >5,000 mg/kg (Calculated)
<b>Acute inhalation toxicity</b>	LC50 130.53 mg/l, 4 h (Calculated)
<b>Acute dermal toxicity</b>	LD50 >5,000 mg/kg (Calculated)
<b>Skin corrosion/irritation</b>	Extremely corrosive and destructive to tissue
<b>Serious eye damage/eye irritation</b>	May cause irreversible eye damage
<b>Respiratory or skin sensitization</b>	Sensitizer
<b>Germ cell mutagenicity</b>	No specific data
<b>Carcinogenicity</b>	
<b>IARC</b>	Quartz, Group 1: Carcinogenic to humans
<b>ACGIH</b>	Quartz, Suspected human carcinogen
<b>NTP</b>	Quartz, Known to be human carcinogen
<b>OSHA</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.
<b>Reproductive Toxicity</b>	No data available
<b>STOT - single exposure</b>	(Specific target organ toxicity) No data available
<b>STOT - repeated exposure</b>	(Specific target organ toxicity) No data available
<b>Aspiration Hazard</b>	No data available

**Section 12 Ecological Information**

<b>Toxicity</b>	Harmful to aquatic life
<b>Persistence and degradability</b>	No data available
<b>Bioaccumulative potential</b>	No data available
<b>Mobility in soil</b>	No data available.
<b>Results of PBT &amp; vPvB assessment</b>	No data available

**Section 13 Disposal Considerations**

The product should not be allowed to enter drains, water courses or the soil.  
 Contact a licensed contractor for detailed recommendations.  
 Follow applicable Federal, State, and local regulations.

**Section 14 Transport Information**

**DOT:** **Shipping Name:** Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A Epoxy Resin, Epoxyphenol Novolac Resin)  
**Hazard Class:** 9  
**ID No.:** UN 3082  
**Packing Group:** III  
**Label:** Class 9  
**ERG Code:** 171  
**Marine pollutant:** yes

**IATA:** **Shipping Name:** Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A Epoxy Resin, Epoxyphenol Novolac Resin)  
**Hazard Class:** 9  
**ID No.:** UN 3082  
**Packing Group:** III  
**Label:** Miscellaneous  
**Packing instruction (cargo/passenger aircraft):** 964


**IMDG:** **Shipping Name:** Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A Epoxy Resin, Epoxyphenol Novolac Resin)  
**Hazard Class:** 9  
**ID No.:** UN 3082  
**Packing Group:** III  
**Label:** 9  
**EmS Code:** F-A, S-F  
**Marine pollutant:** yes

**Section 15 Regulatory Information**

**US Federal Regulations**

SARA 311/312 Codes: Skin corrosion or irritation, Serious eye damage or irritation, Respiratory or skin sensitization  
SARA 313 Toxic Chemical: This material does not contain any chemical components with CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III.  
Clean Air Act: This product does not contain Volatile Hazardous Air Pollutants (HAP) as listed in Section 112(b) of the Clean Air Act or as amended in the Federal Register (40 CFR 61).  
US Toxic Substance Control Act (TSCA) Inventory Status: All ingredients listed on TSCA inventory or in compliance.  
TSCA - 5(a) Significant New Rule List of Chemicals: No substances are subject to a Significant New Use Rule.  
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt D): No substances are subject to TSCA 12(b) export notification requirements.

**California Proposition 65**

**WARNING:**  This product can expose you to chemicals including silica and Epichlorohydrin, which is known to the State of California to cause cancer or birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**Section 16 Other Information**

**Disclaimer**

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**Section 1 Identification**

**Product identifiers**

Product name: Freeman 945 Hardener

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

Identified uses: Epoxy system hardener

**Details of the supplier of the safety data sheet**

Freeman Manufacturing and Supply Company  
 1101 Moore Road, Avon, OH 44011  
 Telephone (440) 934-1902

HMIS	
H	3
F	1
R	0
PPE	
Sec. 8	

**24 Hour emergency telephone number: CHEMTREC (800) 424-9300, Customer Number 8849**

**Section 2 Hazards Identification**

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

- Acute Toxicity (Dermal), Category 4
- Serious Eye Damage/Eye Irritation, Category 1
- Skin Sensitization, Category 1
- Skin Corrosion/Irritation, Category 1B
- Acute Aquatic Toxicity, Category 3
- Acute Chronic Toxicity, Category 3

**GHS Label elements, including precautionary statements**



Signal word    Danger

**Hazard Statements**

- Harmful in contact with skin.
- Causes severe skin burns and eye damage.
- May cause an allergenic skin reaction.
- Harmful to aquatic life with long lasting effects .

**Precautionary Statements**

**Prevention**

- Keep container tightly closed when not in use.
- Wear protective gloves/eye protection/face protection.
- Do not eat, drink or smoke when using this product.
- Use in a well ventilated area.
- Avoid breathing vapor.

**Response**

- Get medical attention if you feel unwell.
- IF exposed or if you feel unwell: Call a POISON CENTER or physician.



**Section 2 Hazards Identification** continued

IF SWALLOWED: Rinse mouth. Do not induce vomiting. Get medical attention.  
 IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse.  
 If skin irritation or rash occurs: Get medical attention.  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical attention.  
 IF IN EYES: Rinse cautiously for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Get medical attention immediately.  
 Wash contaminated clothing before reuse.  
 Collect spillage.

**Storage**

Store in a well-ventilated place. Keep container tightly closed.

**Disposal**

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

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

None known

**Section 3 Composition/Information on Ingredients**

Ingredient Name	CAS Number	Concentration (%)
Triethylenetetramine	112-24-3	30 - 60
m-Xylylenediamine	1477-55-0	13 - 30
1-Methylimidazole	616-47-7	3 - 7
2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine	25513-64-8	0.1 - 1

**Section 4 First Aid Measures**

**Description of first aid measures**

**If inhaled**

Move person into fresh air. Get medical attention if symptoms persist.

**In case of skin contact**

Wash off with soap and plenty of water. Get immediate medical attention.

**In case of eye contact**

Flush eyes with water for at least 15 minutes. Get medical attention immediately. Continue rinsing eyes during transport to hospital.

**If swallowed**

Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get immediate medical attention.

**Section 5 Fire-Fighting Measures**

**Extinguishing media**

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Unsuitable extinguishing media: High volume water jet.

**Special hazards arising from the substance or mixture**

Do not allow run-off from firefighting to enter drains or water courses.

**Section 5 Fire-Fighting Measures** continued

**Hazardous thermal decomposition products**

Carbon dioxide, carbon monoxide, nitrogen oxides

**Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**Further information**

Collect contaminated fire extinguishing water separately. Do not discharge into drains.  
 Dispose of in accordance with local regulations.

**Section 6 Accidental Release Measures**

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

Avoid breathing vapors, mist or gas. For personal protection see section 8.

**Environmental precautions**

Do not let product enter drains. If product contaminates rivers and lakes or drains inform respective authorities.

**Methods and materials for containment and cleaning up**

Dike and contain spill. Soak up with inert absorbent material (e.g. sand, silica gel, sawdust).  
 Keep in suitable, closed containers for disposal.

**Section 7 Handling and Storage**

**Precautions for safe handling**

Do not breathe vapors. Avoid exposure. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

**Conditions for safe storage, including any incompatibilities**

Keep containers tightly closed in a dry and well-ventilated place. Carefully reseal opened containers after use. No known incompatible materials.

**Section 8 Exposure Controls/Personal Protection**

**Components with workplace control parameters**

Ingredient	OSHA		ACGIH	
	PEL	STEL	TWA	STEL
1-Methylimidazole	None established	None established	0.1 mg/m <sup>3</sup>	None established

**Appropriate engineering controls**

If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Personal protective equipment**

**Eye/face protection**

Use safety goggles.

**Hand protection**

Use impervious gloves. Discuss suitability with glove manufacturer.

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

**Skin/body protection**

Prevent skin contact when handling material. Wear impervious clothing.

**Respiratory protection**

The need for respiratory protection is not anticipated under normal use conditions and with adequate ventilation. If elevated airborne concentrations above applicable workplace exposure levels are anticipated, a NIOSH-approved organic vapor respirator equipped with a dust/mist prefilter should be used.

**Safety stations**

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

**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**

<b>Appearance</b>	Blue liquid
<b>Odor</b>	Amine
<b>Odor threshold</b>	No data available
<b>pH</b>	No data available
<b>Percent volatile materials</b>	0
<b>Total Organics</b>	64.05%
<b>Freezing point</b>	No data available
<b>Boiling point</b>	204°C (400°F)
<b>Flash point (Seta closed cup)</b>	> 93°C (> 199°F)
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	Not applicable
<b>Upper/lower flammability</b>	No data available
<b>Vapor pressure</b>	0.0011997 hPa (20°C)
<b>Relative vapor density</b>	No data available
<b>Relative density</b>	1.045
<b>Product density (lb/gal)</b>	8.72
<b>Water solubility</b>	Slightly soluble
<b>Coefficient: n-octanol/ water</b>	No data available
<b>Auto-ignition temperature</b>	No data available
<b>Decomposition temperature</b>	No data available
<b>Viscosity</b>	No data available
<b>Explosive properties</b>	No data available
<b>Oxidizing properties</b>	No data available
<b>VHAP Content</b>	None

**Section 10 Stability and Reactivity**

**Reactivity**

No known dangerous reaction if stored and applied as directed.

**Section 10 Stability and Reactivity continued**

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

None known.

**Conditions to avoid and incompatible materials**

None known.

**Hazardous decomposition products**

Thermal oxidative decomposition can produce carbon oxides, and nitrogen oxides.

**Section 11 Toxicological Information**

**Information on toxicological effects**

<b>Acute oral toxicity</b>	2,043 mg/kg (calculated)
<b>Acute inhalation toxicity</b>	9.31 mg/l, 4 h (calculated)
<b>Acute dermal toxicity</b>	1,478 mg/kg (calculated)
<b>Skin corrosion/irritation</b>	Extremely corrosive and destructive to tissue
<b>Serious eye damage/eye irritation</b>	May cause irreversible eye damage
<b>Respiratory or skin sensitization</b>	Causes skin sensitization
<b>Germ cell mutagenicity</b>	No data available
<b>Carcinogenicity</b>	
<b>IARC</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.
<b>NTP</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen.
<b>OSHA</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.
<b>Reproductive toxicity</b>	No data available
<b>STOT - single exposure</b>	(Specific Target Organ Toxicity) No data available
<b>STOT - repeated exposure</b>	(Specific Target Organ Toxicity) No data available
<b>Aspiration toxicity</b>	No data available

**Section 12 Ecological Information**

<b>Toxicity</b>	Harmful to aquatic life
<b>Persistence and degradability</b>	No data available
<b>Bioaccumulative potential</b>	No data available
<b>Mobility in soil</b>	No data available
<b>Results of PBT &amp; vPvB assessment</b>	No data available

**Section 13 Disposal Considerations**

Do not allow product to enter drains, water courses, or soil. Do not re-use empty containers. Contact a licensed waste management company for detailed recommendations. Follow applicable Federal, State, and local regulations.

**Section 14 Transport Information**

**DOT: Shipping Name:** Polyamines, liquid, corrosive, n.o.s.  
(Triethylene tetramine, m-Xylene diamine)

**Hazard Class:** 8

**ID No.:** UN 2735

**Packing Group:** II

**Labels:** Corrosive

**ERG Code:** 153

**IATA: Shipping Name:** Polyamines, liquid, corrosive, n.o.s.  
(Triethylene tetramine, m-Xylene diamine)

**Hazard Class:** 8

**ID No.:** UN 2735

**Packing Group:** II

**Labels:** Corrosive

**Packing instruction (cargo aircraft):** 855

**Packing instruction (passenger aircraft):** 851

**IMDG: Shipping Name:** Polyamines, liquid, corrosive, n.o.s.  
(Triethylene tetramine, m-Xylene diamine)

**Hazard Class:** 8

**ID No.:** UN 2735

**Packing Group:** II

**Labels:** 8

**EmS Code:** F-A, S-B

**Marine pollutant:** no

**Section 15 Regulatory Information**

**US Federal Regulations**

SARA 311/312 Codes: Acute Health Hazard

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

Clean Air Act: This product does not contain Volatile Hazardous Air Pollutants (HAP) as listed in Section 112(b) of the Clean Air Act or as amended in the Federal Register (40 CFR 61).

US Toxic Substance Control Act (TSCA) Inventory Status: All ingredients listed on TSCA inventory or in compliance.

TSCA - 5(a) Significant New Rule List of Chemicals: No substances are subject to a Significant New Use Rule.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt D): No substances are subject to TSCA 12(b) export notification requirements.

**US State Regulations**

California Proposition 65: This product does not contain any chemicals known to the State of California to cause cancer, birth defects or any other reproductive harm.

**Section 16 Other Information**

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