

## Freeman 955 - Part A (Resin)

## Section 1 Identification

#### **Product Identifiers**

Product name: Freeman 955 Hi-Temp Surface Coat – Part A (Resin) Relevant Identified Uses of the Substance or Mixture

Epoxy resin for epoxy 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 US Telephone +1 (440) 934-1902

## 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)

Skin Irritation, Category 2 Serious Eye Damage, Category 1 Skin Sensitizer, Category 1 Carcinogenicity, Category 1A Specific Target Organ Toxicity Repeated Exposure, Category 2 Hazardous to the Aquatic Environment Chronic Hazard, Category 2

## GHS Label elements, including precautionary statements



Signal word: Danger

#### **Hazard Statements**

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause cancer. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects. **Precautionary Statements** Prevention Obtain, read, and follow all safety instructions before use. Do not breathe vapors. Avoid breathing vapors. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves and eye protection. Response IF ON SKIN: Wash with plenty of soap and water.



## Freeman 955 - Part A (Resin)

## Section 2 Hazards Identification continued

IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical help. If exposed or concerned, get medical advice. Get medical help if you feel unwell. If skin irritation or rash occurs: Get medical help. Take off contaminated clothing and wash it before reuse. Collect spillage. Storage Store locked up. Disposal 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 Part B Hardener

This is one part of a two-part system. Read and understand the hazard information on Part B 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	30 - 40
2,2'-[1,4- butanediylbis(oxymethylene)]bis[oxirane]	2425-79-8	5-10
Crystalline Silica, quartz	14808-60-7	0-5

## Section 4 First Aid Measures

## **Description of 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 persists. **Skin Contact:** Remove contaminated clothing. Wash contact area thoroughly with soap and water. Get medical attention if irritation persists.

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

**Ingestion:** Do not induce vomiting. Rinse mouth. Get medical attention.

## Most Important Symptoms/Effects

May cause an allergic skin reaction.

## Indication of Immediate Medical Attention/Special Treatment

Treat symptoms.

## Section 5 Fire-Fighting Measures

## Extinguishing media

Suitable extinguishing media: 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 and Precautions for Fire-Fighters

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



## Freeman 955 - Part A (Resin)

## 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. <b>Methods and Materials for Containment and Cleanup</b> Cover with an inert absorbent material and collect into an appropriate container for disposal. Avoid releases to the environment.		
Section 7 Handling and Storage		
<ul> <li>Precautions for Safe Handling         <ul> <li>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 inwhich this mixture is being used.</li> </ul> </li> <li>Conditions for Safe Storage         <ul> <li>Keep containers tightly closed in a dry and well-ventilated place. Carefully reseal opened containers after use.</li> </ul> </li> <li>Safe Handling         <ul> <li>Una with adaptate ventilation. Avoid contact with avon also also being. Weak thereughly after headling.</li> </ul> </li> </ul>		
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.		
Section 8 Exposure Controls/Personal Protection		

## **Occupational Exposure Limits**

Ingredient	OSHA		ACGIH	
	PEL	STEL	TWA	STEL
Crystalline silica, quartz (CAS14808-60-7)	0.05 mg/m <sup>3</sup>	Not established	0.05 mg/m <sup>3</sup>	Not established

## Ventilation

Use with properly positioned local exhaust ventilation to prevent exposure and maintain air levels below the occupational exposure limits.

## **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.

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

Eye Protection: Wear chemical safety glasses/goggles.

## **Other Protective Measures**

Wear impervious clothing to 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.



# Safety Data Sheet Freeman 955 – Part A (Resin)

## Section 9 Physical and Chemical Properties

Section 91 hysical and chemical 110per ties		
Annoaranco	Liquid	
Appearance Odor	Epoxy	
Odor Threshold	No data available	
	Not determined	
pH Malting Daint		
Melting Point	No data available	
Boiling PointNo data availableFlash PointNo data available		
		Evaporation Rate
Upper/Lower Flammability Limits		
Vapor Pressure	No data available	
Vapor Density	No data available	
Relative Density	No data available	
Solubility	Nil slightly soluble in water	
Coefficient: n-octanol/water	No data available	
Coefficient: n-Octanol/ Water	No data available	
Auto-Ignition Temperature	No data available	
<b>Decomposition Temperature</b>	No data available	
Volatile Organic Content	<0.01%	
VOC Classification	Zero VOC	
Viscosity	No data available	
viscosity		
Secti	on 10 Stability and Reactivity	
Reactivity		
Not normally reactive.		
Chemical Stability		
Stable under recommended condition	ns.	
Possibility of Hazardous Reactions		
Masses of $\geq$ 1 lb. (0.5 kg) plus aliphat	ic amine will cause irreversible polymerization with	
considerable heat build-up. Material will polymerize with sodium hydroxide.		
Conditions to Avoid		
Avoid excessive heat.		
Incompatible Materials		
	gents, acids, alkalis, amines, and mercaptans.	
Hazardous Decomposition Products		
-	epoxy resin releases carbon monoxide, carbon dioxide, phenolics,	
and aldehydes.	epoxy reshi releases carbon monoxiae, carbon aloxiae, prenones,	
Section 11 Toxicological Information		
-	s serious eye damage.	
	s skin irritation. May cause sensitization.	
	sensitized, a severe allergic reaction may occur when	
	quently exposed to very low levels.	
-	s from heated product may cause respiratory irritation.	
8	ta available.	
Chronic Health Effects Allergic skin reaction.		



Freeman 955 - Part A (Resin)

## Section 11 Toxicological Information continued

Acute Toxicity	N. J
Acute Toxicity Values	No data available
<b>Respiratory Sensitization</b>	Components are not respiratory sensitizers.
Skin Sensitization	Causes allergic skin reaction
Germ Cell Mutagenicity	Components are not mutagens.
Carcinogenicity	This product contains crystalline silica, quartz (CAS 14808-60-7), a chemical suspected of causing cancer.
Reproductive Toxicity	Components are not reproductive toxins.
Specific Target Organ Toxicity	
Single Exposure	No data available
<b>Repeated Exposure</b>	May damage organs through prolonged or repeated exposure.
Sec	tion 12 Ecological Information
Ecotoxicity	
<b>Ecotoxicity</b> No data available	
No data available	
No data available Persistence and Degradability	
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. Contact a licensed contractor for detailed recommendations. Follow applicable Federal, State, and local regulations.

## **Section 14 Transport Information**

## DOT/IATA/IMDG

ID No.:UN3082Shipping Name:Environmentally hazardous substances, liquid, n.o.s. (epoxy resin)Hazard Class:9Packing Group:III

Not regulated as a hazardous material by DOT in containers of 55-gal or less. Excepted from IMDG and IATA regulations in containers of 5 liters or less (see IATA SP A197 and IMDG 2.10.2.7).

## **Section 15 Regulatory Information**

## **US Federal Regulations**

## **CERCLA 103 Reportable Quantity**

This product is not subject to reporting under CERCLA.



## Freeman 955 - Part A (Resin)

## Section 15 Regulatory Information continued

## SARA TITLE III Section 313 Toxic Chemicals

This product contains no chemicals subject to SARA Title III Section 313 Reporting requirements. **Section 302 Extremely Hazardous Substances (TPQ)** 

None

## **US State Regulations**

## California Proposition 65

**WARNING:** This product contains crystalline silica, quartz (CAS 14808-60-7), a chemical known to the State of California to cause cancer. For more information go to <u>www.P65Warnings.ca.gov</u>.

## **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.

## **Recommended Uses and Restrictions**

This product is intended for industrial/professional use only.

## 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.

Date of initial release: August 6, 2021 Date of previous revision: August 6, 2021 Date of current revision: September 25, 2024



Safety Data Sheet Freeman 955 - Part B (Hardener)

## Section 1 Identification

## **Product Identifiers**

Product name: Freeman 955 Hi-Temp Surface Coat – Part B (Hardener) Relevant Identified Uses of the Substance or Mixture

Identified uses: Epoxy Curing Agent. 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 US Telephone +1 (440) 934-1902

## 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 (Oral), Category 4 Acute Toxicity (Dermal), Category 4 Skin Corrosion, Category 1B Serious Eye Damage, Category 1 Skin Sensitization, Category 1 Specific Target Organ Toxicity, Single Exposure Category 1 (Oral) Hazardous to the Aquatic Environment, Acute Hazard Category 2

## GHS Label elements, including precautionary statements



Signal word: Danger

## **Hazard Statements**

Harmful if swallowed. Harmful in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage. Causes damage to organs. Harmful to aquatic life. **Precautionary Statements** Prevention Do not breathe vapors. Avoid breathing vapors. Wash thoroughly after handling. Do not eat, drink, or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves.



## Freeman 955 - Part B (Hardener)

## Section 2 Hazards Identification continued

Response IF SWALLOWED: Get medical help. Rinse mouth. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of water. Immediately take off all contaminated clothing. Immediately rinse with water for several minutes. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get emergency medical help immediately. If skin irritation or rash occurs: Get medical help. Take off contaminated clothing and wash before reuse. Storage Store locked up. Disposal Dispose of contents and container in accordance with all local, regional, national, and international regulations. **Supplemental Information** This is one part of a two-part system. Read and understand the hazard information on Part A Resin before using. Section 3 Composition/Information on Ingredients **Ingredient Name** CAS Number **Concentration (%)** Methylenebiscyclohexanamine, 4,4'-1761-71-3 50-60 Triethylenetetramine 112-24-3 35-45 616-47-7 1H-Imidazole, 1-Methyl-1-10

## **Section 4 First Aid Measures**

108-46-3

1-10

## **Description of First Aid Measures**

1.3-Benzenediol

**Eye Contact:** Rinse thoroughly with water for at least 15 minutes, holding the eyelids open to be sure the material is washed out. Remove contact lenses if present and easy to do. Get medical attention if irritation develops or persists.

**Skin Contact:** Remove contaminated clothing. Wash contact area thoroughly with soap and water. Get medical attention if irritation or symptoms of exposure develop. Launder clothing before re-use. Discard items that cannot be decontaminated.

**Inhalation:** If inhaled, remove person to fresh air. Give artificial respiration if needed. If breathing is difficult, oxygen should be administered by qualified personnel. Get medical attention if symptoms develop or persist.

Ingestion: Rinse mouth. Do not induce vomiting. Get medical attention if you feel unwell.

## Most Important Symptoms/Effects

Harmful if swallowed, in contact with skin, or if inhaled. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause respiratory irritation. Suspected of damaging fertility or the unborn child. Suspected of causing genetic defects.

## Indication of Immediate Medical Attention/Special Treatment

Provide general supportive measures and treat symptomatically. Keep victim under observation as symptoms may be delayed.



## Freeman 955 - Part B (Hardener)

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

## **Extinguishing Media**

Use alcohol-resistant foam, carbon dioxide, water fog, or dry chemical.

## **Special Hazards**

Not classified as flammable or combustible.

## Special Protective Equipment and Precautions for Fire-Fighters

Wear positive pressure, self-contained breathing apparatus, and full-body protective clothing. Cool fire-exposed containers with water.

## Section 6 Accidental Release Measures

## Personal Precautions, Protective Equipment, and Emergency Procedures

Remove all ignition sources. Clear non-emergency personnel from the area. Wear appropriate protective clothing to prevent eye and skin contact and avoid breathing vapors. Ventilate area.

## Methods and Materials for Containment and Cleanup

Do not discharge material into waterways. Cover with an inert absorbent material and collect into an appropriate container 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 inwhich this mixture is being used.

## **Conditions for Safe Storage**

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

## Safe Handling

Avoid contact with eyes, skin, and clothing. When using, do not eat, drink, or smoke. Use with properly positioned local exhaust ventilation to prevent exposure. Wash thoroughly after handling. Keep container closed when not in use.

## Safe Storage

Store indoors at temperatures between 40°F and 95°F. Store in original, unopened containers away from incompatible materials, open flames, and high temperatures.

## Section 8 Exposure Controls/Personal Protection

## **Occupational Exposure Limits**

Ingredient	ACGIH TWA
1,3-Benzenediol (CAS 106-46-3)	10 ppm

## Ventilation

Use with properly positioned local exhaust ventilation to prevent exposure and maintain air levels below the occupational exposure limits.



## Freeman 955 - Part B (Hardener)

## Section 8 Exposure Controls/Personal Protection

## **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.

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 eyewash facility and washing facility should be available in the work area. Follow applicable regulations and good Industrial Hygiene practice.

#### **Other Protective Measures**

Wear impervious clothing to 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**

Appearance		
	Liquid	
Odor	Epoxy	
Odor Threshold	No data available	
pH	No data available	
Melting/Freezing Point	No data available	
Boiling Point	No data available	
Flash Point	No data available	
Evaporation Rate	No data available	
Flammability Limits	No data available	
Vapor Pressure	No data available	
Vapor Density	No data available	
Relative Density	1.0 g/cm <sup>3</sup>	
Solubility	Insoluble in water	
Coefficient: n-Octanol/ Water	No data available	
Auto-Ignition Temperature	No data available	
Decomposition Temperature	No data available	
Volatile Organic Content	<0.01%	
VOC Classification	Zero VOC	
Viscosity	No data available	
Section 10 Stability and Reactivity		
vity		
Not normally reactive.		
al Stability		

## Stable under recommended storage conditions.

## **Possibility of Hazardous Reactions**

No data available.

## **Conditions to Avoid**

Keep away from open flames, hot surfaces, sources of ignition.



## Freeman 955 - Part B (Hardener)

## Section 10 Stability and Reactivity

## **Incompatible Materials**

Avoid strong acids, carbon dioxide, acid chlorides, and acid anhydrides.

## **Hazardous Decomposition Products**

Carbon monoxide, carbon dioxide, nitrogen oxides, ammonia, nitrosamine.

## **Section 11 Toxicological Information**

Eye Contact	Causes serious eye damage.
Skin Contact	Causes skin burns and irritation.
Inhalation	May cause respiratory irritation.
Ingestion	Harmful if ingested.
<b>Chronic Health Effects</b>	No data available.

**Acute Toxicity** 

Ingredient	CAS Number	Oral LD <sub>50</sub> Rat	Dermal LD <sub>50</sub>
Methylenebiscyclohexananmine, 4,4'	1761-71-3	>1,200 mg/kg	Rabbit: >2,000 mg/kg
Triethylenetetramine	112-24-3	2,500 mg/kg	Rat: 550 mg/kg
1,3-Benzenediol	108-46-3	510 mg/kg	Rat: 2,830 mg/kg
1H-Imidazole, I-Methyl-	616-47-7	1,130 mg/kg	Rat: 400-640 mg/kg

<b>Respiratory Sensitization</b>	This product is not considered a respiratory sensitizer.
Skin Sensitization	This product is classified as a skin sensitizer.
Germ Cell Mutagenicity	This product is not a mutagen.
Carcinogenicity	Product has not been tested for carcinogenicity.
Reproductive Toxicity	No ingredients are designated as carcinogens by NTP, IARC, or OSHA. This product does not contain chemicals suspected of causing damage to fertility or the unborn child.
Specific Target Organ Toxic	city
Single Exposure	May cause damage to organs through single exposure.
_	

**Repeated Exposure** No data available.

## **Section 12 Ecological Information**

## Ecotoxicity

Harmful to aquatic life. Do not release to waterways. **Persistence and Degradability** 

No data available.

## **Bioaccumulative Potential**

No data available.

## Mobility in Soil

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.



## Freeman 955 - Part B (Hardener)

	Section 14 Transport Information	
DOT/IATA/IMDG		
ID No.:	UN1760	
Shipping Name:	Corrosive, liquid, n.o.s. (Triethylenetetramine, 1H-Imidazole, I-Methyl-,	
	cycloaliphatic amine)	
Hazard Class:	8	
Packing Group:	II	
Labels:		
	Section 15 Regulatory Information	
US Federal Regulations		
CERCLA 103 Reporta	able Quantity	
	eportable quantities for this product.	
	on 313 Toxic Chemicals	
	contains no chemicals subject to SARA Title III Section 313 Reporting requirements.	
	ely Hazardous Substances (TPQ)	
None		
EPA Toxic Substance	es Control Act (TSCA) Status	
All of the comp	ponents of this product are listed on TSCA.	
US State Regulations		
California Propositio		
-	loes not contain chemicals known to the State of California to cause cancer, birth	
defects, or any	other reproductive harm. <u>www.P65Warnings.ca.gov</u> .	
	Section 16 Other Information	
	Section to other miormation	
Training Advice		
	andling this product should be trained in proper chemical handling and the need for	
	g controls and protective equipment.	
Recommended Uses and Re		
	ed for industrial use only.	
Disclaimer		
	edes Buyer's documents. SELLER MAKES NO REPRESENTATION OR	
,	SED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR	
	ICULAR PURPOSE. No statements herein are to be construed as inducements to	
	patent. Under no circumstances shall Seller be liable for incidental,	
-	rect 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		
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		
	ded; or for uses for which implantation within the human body is intended.	
Skill, of blood is intend	aeu, or for uses for which implantation within the numan bouy is intended.	
Date of initial release	August 6, 2021	
Date of initial release: August 6, 2021 Date of previous revision: August 6, 2021		
Date of current revision: September 25, 2024		
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