

Section 1 Identification

Product Identifiers

Freeman 927 Epoxy Resin (Part A)

Relevant Identified Uses of the Substance or Mixture

Economical high-temperature epoxy laminating resin of two-part system.

For Industrial/Professional Use Only.

Details of the supplier of the safety data sheet

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

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

Section 2 Hazards Identification

GHS Classification in Accordance with 29 CFR 1910.1200 (OSHA HCS)

Skin Irritation, Category 2

Serious Eye Damage, Category 1

Skin Sensitizer, Category 1

Hazardous to the Aquatic Environment Chronic Hazard, Category 2

Label Elements



Danger

Hazard statements

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P261 Avoid breathing vapors.

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

P273 Avoid release to the environment.

P280 Wear protective gloves and eye protection.

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

P332+P317 If skin irritation occurs: Get medical help.

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

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

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

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

P391 Collect spillage.

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

Supplemental Information

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

Section 3 Composition/Information on Ingredients

Ingredient Name	CAS Number	Concentration (%)
Propane, 2,2-bis[p(2,3-epoxypropoxy)phenyl]-, polymers	25085-99-8	50-70
2,2'-[1,4-butanediylbis(oxyethylene)]bis[oxirane]	2425-79-8	10-20

Other ingredients are not classified as health, physical or environmental hazards, or are present below cut-off/concentration limits.

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: Rinse mouth. Do not induce vomiting. 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

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.

Special Hazards

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

Special Protective Equipment & Precautions for Fire-Fighters

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

Section 6 Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures

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

Environmental Precautions

Avoid releases to the environment.

Methods and Materials for Containment and Cleanup

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

Section 7 Handling and Storage

Safe Handling

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

Section 7 Handling and Storage

Safe Storage

Store indoors at temperatures below 120°F. Store in original containers. Avoid getting moisture into containers. Keep containers tightly closed.

Section 8 Exposure Controls/Personal Protection

Occupational Exposure Limits

None established

Appropriate Engineering Controls

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

Personal Protective Equipment (PPE)

Respiratory Protection: If ventilation is inadequate, use a properly fitted, NIOSH-approved, air-purifying respirator with organic vapor cartridges. 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 or goggles.

Other Protective Measures

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

Section 9 Physical and Chemical Properties

Appearance	Liquid
Odor	Epoxy
Odor Threshold	No data available
pH	Not determined.
Melting 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	No data available
Solubility	Nil to slightly soluble in water
Coefficient: n-Octanol/Water	No data available
Auto-Ignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available
VOC	0 g/L

Section 10 Stability and Reactivity

Reactivity: Not normally reactive.

Chemical Stability: Stable under recommended storage conditions.

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

Conditions to Avoid: Avoid excessive heat.

Section 10 Stability and Reactivity

Incompatible Materials: Strong oxidizing agents, acids, alkalis, amines, and mercaptans.
Hazardous Decomposition Products: Uncontrolled exothermic reaction of epoxy resin releases carbon monoxide, carbon dioxide, phenolics, and aldehydes.

Section 11 Toxicological Information

Acute Toxicity Values

No data available.

Health Effects

Eye Contact: Causes serious eye damage and irritation.

Skin Contact: Causes skin irritation. May cause sensitization. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Inhalation: Vapors from heated product may cause respiratory irritation.

Ingestion: No data available.

Respiratory Sensitization: Components are not respiratory sensitizers.

Skin Sensitization: Causes allergic skin reaction.

Germ Cell Mutagenicity: Components are not known mutagens.

Carcinogenicity: Components are not carcinogens.

Reproductive Toxicity: Components are not known reproductive toxins.

Specific Target Organ Toxicity (STOT), Single Exposure: Not classified based on available data.

STOT, Repeated Exposure: Not classified based on available data.

Section 12 Ecological Information

Ecotoxicity: No data available. 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

Minimize waste generation. Dispose of with a licensed waste disposal contractor.

Do not dispose of down the drain or sewers. Dispose according to local, state, and federal regulations.

Section 14 Transport Information

DOT

UN 3082, Environmentally hazardous substance, liquid, n.o.s. (epoxy resin), 9, III.

Non-bulk packages (<119gal or <882lb) are not regulated for transport.

IATA/IMDG

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

Excepted from IATA and IMDG regulations if shipped in containers of 5L (1.32gal) or less. (see IATA SP A197 and IMDG 2.10.2.7).

Section 15 Regulatory Information

US Federal Regulations

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

Section 15 Regulatory Information

SARA TITLE III Section 311/312: See Section 2

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

Section 302 Extremely Hazardous Substances (TPQ): None

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

US State Regulations

California Proposition 65 WARNING: ⚠ This product can expose you to chemicals including Epichlorohydrin (106-89-8), which is known to the State of California to cause cancer, and birth defects and/or other reproductive harm. For more information go to www.P65Warnings.ca.gov.
Safe Harbor Level (cancer) No Significant Risk Level (NSRL): 9µg/day

Section 16 Other Information

Training Advice

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

Disclaimer

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

Initial Issue Date: August 13, 2021

Previous Revision Date: October 4, 2022

Current Revision Date: January 10, 2025

Section 1 Identification

Product Identifiers

Freeman 927 Epoxy Hardener (Part B)

Relevant Identified Uses of the Substance or Mixture

Economical high-temperature epoxy laminating hardener of two-part system.

For Industrial/Professional Use Only.

Details of the Supplier of the Safety Data Sheet

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

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

Section 2 Hazards Identification

GHS Classification in Accordance with 29 CFR 1910.1200 (OSHA HCS)

Acute Toxicity (Oral), Category 4

Acute Toxicity (Dermal), Category 4

Skin Corrosion, Category 1B

Eye Damage/Irritation, Category 1

Skin Sensitization, Category 1

Specific Toxic Organ Toxicity-Repeated Exposure, Category 2

Aquatic Toxicity-Chronic, Category 3

Label Elements



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.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P260 Do not breathe dusts or mists.

P261 Avoid breathing vapors.

P264 Wash hands thoroughly after handling.

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

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

P273 Avoid release to the environment.

P280 Wear protective gloves and eye protection.

P301+P317 IF SWALLOWED: Get medical help.

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

P316 Get emergency medical help immediately.

P317 Get medical help.

P319 Get medical help if you feel unwell.

P330 Rinse mouth.

Section 2 Hazards Identification

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P361+P354 IF ON SKIN: Take off immediately all contaminated clothing.
Immediately rinse with water for several minutes.
P302+P352 IF ON SKIN: Wash with plenty of water.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P354+P338 IF IN EYS: Immediately rinse with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P363 Wash contaminated clothing before reuse.
P333+P317 If skin irritation or rash occurs: Get medical help.
P362+P364 Take off contaminated clothing and wash it before reuse.
P391 Collect spillage.
P405 Store locked up.
P501 Dispose of contents and container in accordance with local, regional, and national regulations.

Supplemental Information

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

Section 3 Composition/Information on Ingredients

Ingredient Name	CAS Number	Concentration (%)
Mixed Cycloaliphatic Amines	Proprietary	45-55
Triethylenetetramine	112-24-3	40-60
N-Methyl Imidazole	616-47-7	0-10

Other ingredients are not classified as health, physical or environmental hazards, or are present below cut-off/concentration limits.

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. 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: Rinse mouth. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention.

Most Important Symptoms/Effects

May cause eye damage and eye pain, watering, and redness.

Indication of Immediate Medical Attention/Special Treatment

Eye pain, watering, and redness. Treat symptoms.

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 eruption.

Special Hazards

Not classified as flammable or combustible. Product will burn under fire conditions.

Section 5 Fire-Fighting Measures

Special Protective Equipment & 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

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

Environmental Precautions

Avoid releases to the environment.

Methods and Materials for Containment and Cleanup

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

Section 7 Handling and Storage

Safe Handling

Use with adequate ventilation. Avoid contact with the 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. Store in original containers. Avoid getting moisture into containers. Keep containers tightly closed.

Section 8 Exposure Controls/Personal Protection

Occupational Exposure Limits

None established

Appropriate Engineering Controls

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

Personal Protective Equipment (PPE)

Respiratory Protection: If ventilation is inadequate, use a properly fitted, NIOSH-approved, air-purifying respirator with organic vapor cartridges. 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 or goggles.

Other Protective Measures

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

Section 9 Physical and Chemical Properties

Appearance	Amber liquid
Odor	Amine
Odor Threshold	No data available
pH	Alkaline
Melting Point	No data available
Boiling Point	No data available
Flash Point	>200°F (>93°C)
Evaporation Rate	No data available

Section 9 Physical and Chemical Properties

Flammability Limits	No data available
Vapor Pressure	No data available
Vapor Density	>1 (Air = 1)
Relative Density	No data available
Solubility	No data available
Coefficient: n-Octanol/Water	No data available
Auto-Ignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	60-80 cP
VOC	0 g/L

Section 10 Stability and Reactivity

Reactivity: No specific data is available for this product.
Chemical Stability: Stable under recommended conditions.
Possibility of Hazardous Reactions: No data available.
Conditions to Avoid: No data available.
Incompatible Materials: Reactive or incompatible with acids and epoxy resins.
Hazardous Decomposition Products: Under normal conditions of storage and use, hazardous decomposition should not occur.

Section 11 Toxicological Information

Acute Toxicity Values

No data available on product

Health Effects

Eye Contact: Causes serious eye damage.
Skin Contact: Causes severe skin burns. May cause allergic reaction to skin.
Inhalation: Vapors or mists may cause respiratory irritation.
Ingestion: Harmful if swallowed. May cause burns to mouth, throat and stomach.
Respiratory Sensitization: Components are not respiratory sensitizers.
Skin Sensitization: Components are skin sensitizers.
Germ Cell Mutagenicity: Components are not known mutagens.
Carcinogenicity: Components are not designated as carcinogens by NTP, IARC, or OSHA.
Reproductive Toxicity: Components are not known reproductive toxins.
Specific Target Organ Toxicity (STOT), Single Exposure: No data available
STOT, Repeat Exposure: May cause damage to organs through prolonged or repeated exposure.

Section 12 Ecological Information

Ecotoxicity: Product is considered dangerous to aquatic environment. 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

Minimize waste generation. Dispose of with a licensed waste disposal contractor. Do not dispose of down the drain. Dispose according to local, state, and federal regulations.

Section 14 Transport Information

DOT

UN2735, Amines, liquid, corrosive n.o.s. (cycloaliphatic amine), 8, II.

IATA/IMDG

UN2735, Amines, liquid, corrosive n.o.s. (cycloaliphatic amine), 8, II.

Section 15 Regulatory Information

US Federal Regulations

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

SARA TITLE III Section 311/312: See Section 2

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

Section 302 Extremely Hazardous Substances (TPQ): None

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

US State Regulations

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

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

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.

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