

Freeman 825 Iron Filled Epoxy Resin

Section 1 Identification

Product Identifiers

Product name: Freeman 825 Iron Filled Epoxy 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 and Supply Company

1101 Moore Road, Avon, OH 44011

Telephone (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

Eye Irritation, Category 2

Skin Sensitizer, Category 1

Reproductive Toxin, Category 1B

Specific Target Organ Toxicity Repeat Exposure, Category 2

Hazardous to the Aquatic Environment Acute Hazard, Category 2

Hazardous to the Aquatic Environment Chronic Hazard, Category 3

GHS Label elements, including precautionary statements



Signal word Danger

Hazard Statements

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

May cause damage to organs through prolonged or repeated exposure.

May damage fertility or the unborn child.

Toxic to aquatic life with long lasting effects.

Precautionary Statements

Prevention

Obtain, read, and follow all safety instructions before use.

Do not breathe fumes or vapors.

Avoid breathing vapors.

Wash hands and contacted areas 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. If skin irritation or rash occurs: Get medical help.

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Section 2 Hazards Identification continued

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 If exposed or concerned, get medical advice.
 Take off contaminated clothing and wash it before reuse.

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 curative before using.

Section 3 Composition/Information on Ingredients

Ingredient Name	CAS Number	Concentration (%)
Propane, 2,2-bis[p(2,3-epoxypropoxy)phenyl]-, polymer	25085-99-8	20-30
Di-n-Butyl Phthalate	84-74-2	0-10
Exact concentrations are withheld as trade secret. Other ingredients not listed are either not hazardous or are below the cut-off/concentration thresholds.		

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. Launder contaminated clothing before reuse. Throw away clothing that cannot be decontaminated.

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

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

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.

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.

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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.

Methods and Materials for Containment and Cleanup

Cover with an inert absorbent material and collect into an appropriate container for disposal. Avoid releases to the environment.

Section 7 Handling and Storage

Safe Handling

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

Safe 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 PEL
	TWA
Di-n-Butyl Phthalate (CAS 84-74-2)	5 mg/m ³

Ventilation

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

Respiratory protection

If needed, a NIOSH-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 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

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Section 9 Physical and Chemical Properties continued

Evaporation Rate	No data available
Upper/Lower Flammability Limits	No data available
Vapor Pressure	<0.03 mm Hg @ 25°C
Vapor Density	>1 (Air=1)
Relative Density	No data available
Solubility	Nil to slightly soluble in water
Coefficient: n-octanol/water	3 (log Pow)
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available

Section 10 Stability and Reactivity

Reactivity

Not normally reactive.

Chemical Stability

Stable under recommended conditions. After prolonged storage, may crystalize.

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.

Incompatible Materials

Avoid contact with 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

Eye Contact

Causes serious eye 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.

Chronic Health Effects

Allergic skin reaction.

Acute Toxicity Values

Not acutely hazardous.

Respiratory Sensitization

Components are not respiratory sensitizers.

Skin Sensitization

Causes allergic skin reaction

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Section 11 Toxicological Information continued

Germ Cell Mutagenicity

Components are not mutagens.

Carcinogenicity

This product is not a carcinogen.

Reproductive Toxicity

Product contains Di-n-Butyl Phthalate (CAS 84-74-2), a chemical that may damage fertility or the unborn child.

Specific Target Organ Toxicity

May damage organs through prolonged or repeated exposure.

Section 12 Ecological Information

Ecotoxicity

Toxic to aquatic life and may have long lasting effects. Do not release into waterways.

Persistence and Degradability

No data available.

Bioaccumulative Potential

No data available.

Mobility in Soil

No data available.

Section 13 Disposal Considerations

The product should not be allowed to enter drains, water courses, or the soil. Dispose of according to local, state, and federal regulations.

Section 14 Transport Information

DOT: Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (epoxy resin, dibutyl phthalate).

Hazard Class: 9

ID No.: UN 3082

Packing Group: III

Label: Marine Pollutant

International shipments: Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (epoxy resin, dibutyl phthalate).

Hazard Class: 9

ID No.: UN 3082

Packing Group: III

Label: Marine Pollutant

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Section 15 Regulatory Information

US Federal Regulations

CERCLA 103 Reportable Quantity

The RQ for Di-n-Butyl Phthalate is 10 lbs. Some states have more stringent reporting requirements.

SARA TITLE III

Section 311/312

Acute and Chronic Health Hazard.

Section 313 Toxic Chemicals

This product contains chemicals subject to SARA Title III Section 313 Reporting requirements:

Di-n-Butyl Phthalate (CAS 84-74-2) 0-10%

Section 302 Extremely Hazardous Substances (TPQ)

None

EPA Toxic Substances Control Act (TSCA) Status

All components in this product are listed on TSCA.

State Regulations

California Proposition 65

This product contains Di-n-Butyl Phthalate (84-74-2), a chemical known to the State of California to cause reproductive harm. 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.

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Section 1 Identification

Product Identifiers

Product name: Freeman 825 Hardener

Relevant Identified uses of the Substance or Mixture and uses Advised Against

Identified uses: Hardener, Part B. For Industrial/Professional Use Only.

Details of the Supplier of the Safety Data Sheet:

Freeman Manufacturing and Supply Company

1101 Moore Road, Avon, OH 44011

Phone: (440) 934-1902

24 Hour Emergency Phone Number: (800) 424-9300

Section 2 Hazards Identification

Classification of the Substance or Mixture

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

Skin Corrosion, Category 1, H314

Eye Damage, Category 1, H318

Skin sensitization, Category 1, H317

Germ Cell Mutagenicity, Category 2, H341

Specific Target Organ Toxicity (Repeated Exposure), Category 2, H373

Acute toxicity, inhalation, Category 4, H332

Acute toxicity, oral, Category 4, H302

Acute toxicity, dermal, Category 4, H312

GHS Label Elements, Including Precautionary Statements

Hazard Symbols:



Signal Word: 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.

H341 Suspected of causing genetic defects

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

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.

Section 2 Hazards Identification continued

P273 Avoid release to the environment.
 P280 Wear protective gloves, clothing, and eye/face protection.
 P280 Wear protective gloves, clothing, and eye/face protection.

Response

P301+P330+P331+P312 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call POISON CENTER 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.
 P310 Immediately call a POISON CENTER or doctor.
 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.
 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.

Section 3 Composition/Information on Ingredients

Ingredient Name	CAS Number	Concentration (%)
Polyamide resin	Not applicable	10-35
Benzyl alcohol	100-51-6	10-25
Tris(2,4,6-dimethylaminomethyl)phenol	90-72-2	1-15
Triethylenetetramine	112-24-3	1-15
Phenol	108-95-2	1-10

Remaining components of mixture are non-hazardous, and/or present at amounts below reportable limits.

Section 4 First Aid Measures

Description of First Aid Measures

Eye Contact: Immediately flush eyes with plenty of clean water for an extended time, not less than 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.

Skin Contact: 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.

Inhalation: If affected, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. 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/Effects

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.

Indication of Immediate Medical Attention/Special Treatment

Treat symptomatically.

Section 5 Fire-Fighting Measures

Extinguishing Media

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

Unsuitable: None known.

Specific Hazards Arising from the Chemical

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 for hazardous decomposition products.

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

Do not flush product into public sewer, water systems, or surface waters.

Methods and Material for Containment and Cleanup

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 10). 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

Control Parameters / Occupational Exposure Limits

Chemical Name	CAS Number	ACGIH-TWA	ACGIH-STEL
Polyamide resin	Not applicable	Not available	Not available
Benzyl alcohol	100-51-6	Not available	Not available
Tris(2,4,6-dimethylaminomethyl)phenol	90-72-2	Not available	Not available
Triethylenetetramine	112-24-3	Not available	Not available
Phenol	108-95-2	2 ppm	Not available

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.

Individual Protection Measures including Personal Protective Equipment (PPE)

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 limits of any chemical substance listed in this SDS.

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.

Eye Protection

Full face shield with safety glasses or goggles underneath.

Safety Stations

Make emergency eyewash stations and washing facilities available in work area.

General Hygienic Practices

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

Section 9 Physical and Chemical Properties

Appearance	Red-amber liquid
Odor	Sharp/sweet
Odor Threshold	No data available
pH	No data available
Melting Point	No data available
Boiling Point	No data available
Flash Point	>112°C
Evaporation Rate	No data available
Flammability Limits	No data available
Vapor Pressure	<1 mm Hg @ 20°C
Vapor Density	Heavier than air @ 21°C
Relative Density	1.02
Solubility	Soluble
Coefficient: n-Octanol/Water	No data available
Auto-Ignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	1,600 cP @ 25°C

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.

Chemical Stability

Stable under recommended 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, strong bases, alcohols, strong 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 Likely Routes of Exposure: Eyes, skin, inhalation, and ingestion

Symptoms related to Physical, Chemical, and Toxicological Characteristics

Eye Contact: Causes serious eye damage.
Skin Contact: Harmful in contact with skin. Causes severe burns. May cause allergic skin reaction.
Inhalation: Harmful if inhaled.
Ingestion: Harmful if swallowed.

Delayed and Immediate Effects from Short- and Long-Term Exposure

Chronic Health Effects: Suspected of causing genetic defects. May cause damage to organs through prolonged or repeated exposure.

Acute Toxicity:

Chemical Name	LC ₅₀ Inhalation	LD ₅₀ Oral (Rat)	LD ₅₀ Dermal (Rabbit)
Polyamide resin	Not available	>2,000 mg/kg	>2,000 mg/kg
Benzyl alcohol	>4,178 mg/m ³	1,620 mg/kg	Not available
Tris(2,4,6-dimethylaminomethyl)phenol	Not available	2,169 mg/kg	Not available
Triethylenetetramine	Not available	2,500 mg/kg	805 mg/kg
Phenol	0.9 mg/L	650 mg/kg	630 mg/kg

Skin Corrosion/Irritation: Skin Corrosion – Category 1
Serious Eye Damage/Irritation: Eye Damage – Category 1
Respiratory Sensitization: Information is not available.
Skin Sensitization: Category 1
Carcinogenicity: Information is not available.
Reproductive Toxicity: Information is not available.
Germ Cell Mutagenicity: Category 2
Specific Target Organ Toxicity (STOT)
Single Exposure: Information is not available.
Repeated Exposure: Category 2, kidney, liver, pancreas, and spleen and edema of the lungs.
Aspiration Hazard: Information is not available.

Section 12 Ecological Information

Toxicity

Chemical Name	Test	Species	Result
Benzyl alcohol	LC50 (96 hr.)	Fish	460 mg/L
	EC50 (48 hr.)	Daphnia	230 mg/L
	EgC50 (72 hr.)	Algae	770 mg/L
Tris(2,4,6-dimethylaminomethyl)phenol	LC50 (24hr.)	Rainbow Trout	222 mg/L
	EC50 (96 hr.)	Grass Shrimp	718 mg/L
Phenol	EC50 (48 hr.)	Daphnia	4-7 mg/L

Persistence and Degradability

Chemical Name	Test	Result
Benzyl alcohol	OECD 301A Ready Biodegradability – DOC Die Away test	95-97% (21 Days)

Bioaccumulative Potential

Chemical Name	Log P _{ow}	BCF	Potential
Benzyl alcohol	1.1	Not available	Low

Mobility in Soil: Not available.

Section 13 Disposal Considerations

Disposal Methods

Dispose of unused contents (incineration) and container in accordance with federal, state, 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

U.S. DOT: Not dangerous goods
Canada TDG: Not dangerous goods
Europe ADR/RID: Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods

Environmental Hazards

Marine Pollutant: No
Hazardous Substance (USA): Yes

Section 15 Regulatory Information

U.S. Federal Regulations

Section 313 Toxic Chemicals: Phenol (CAS 108-95-2)

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

Section 15 Regulatory Information continued

Inventories

Canadian Domestic Substances List (DSL): All intentionally added components are either listed or are otherwise compliant with the regulation

Canadian Non-Domestic Substances List (NDSL): For 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

European Inventory of Existing Chemical Substances (EINECS): All intentionally added components are either listed or are otherwise compliant with the regulation

European List of Notified Chemical Substances (ELINCS): For 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

U. S. Toxic Substance Control Act (TSCA): All intentionally added components are either listed or are otherwise compliant with the regulation

Section 16 Other Information

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Date of Issue: June 10, 2022