

Safety Data Sheet
Freeman 815-2 Epoxy Resin

Section 1 Identification

Product Identifiers

Freeman 815-2 Epoxy Resin (Part A)

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

Iron-filled epoxy resin for two-part casting 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 Phone Number
CHEMTREC: (800) 424-9300

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

Label elements



Danger

Hazard Statements

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H360 May damage fertility or the unborn child.
H401 Toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements

P203 Obtain, read and follow all safety instructions before use.
P260 Do not breathe fumes or vapors.
P261 Avoid breathing vapors.
P264 Wash hands and contacted areas thoroughly after handling.
P272 Contaminated work clothing must not be allowed out of the workplace.
P280 Wear protective gloves and eye protection.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P318 IF exposed or concerned, get medical advice.
P319 Get medical help if you feel unwell.
P333+P317 If skin irritation or rash occurs: Get medical help.
P337+P317 If eye irritation persists: Get medical help.

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Section 2 Hazards Identification continued

P362+P364 Take off contaminated clothing and wash before reuse.
P273 Avoid release to the environment.
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 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	≤10

Other ingredients are not listed because they are either not hazardous or are below 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.

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.

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Section 6 Accidental Release Measures

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

Appropriate Engineering Controls

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

Personal Protective Equipment

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. Use respirators in accordance with OSHA's Respiratory Protection Standard (29 CFR 1910.134). 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

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
Upper/Lower Flammability Limits	No data available
Vapor Pressure	<0.03 mm Hg at 25°C
Vapor Density	>1 (Air=1)
Relative Density	No data available

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Section 9 Physical and Chemical Properties continued

Solubility	Nil to slightly soluble in water
Coefficient: n-octanol/water	3 (log P _{OW})
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, product may crystallize.

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, 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

Not established

Acute Health Effects

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

Respiratory Sensitization: Components are not respiratory sensitizers.

Skin Sensitization: Causes allergic skin reaction.

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 (STOT), Single Exposure: No data available.

STOT, Repeated Exposure: May damage organs through prolonged or repeated exposure.

Section 12 Ecological Information

Ecotoxicity: No data available. Avoid release to the environment.

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Safety Data Sheet

Freeman 815-2 Epoxy Resin

Section 13 Disposal Considerations

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

Section 14 Transport Information

DOT

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

IATA/IMDG

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

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: See Section 2

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.

US State Regulations

California Proposition 65: ⚠️ **WARNING:** This product can expose you to chemicals including Di-n-butyl phthalate, which is known to the State of California to cause birth defects or other 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.

Disclaimer

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Initial Issue Date: November 22, 2021

Previous Revision Date: July 14, 2022

Current Revision Date: December 18, 2024

Safety Data Sheet
Freeman 815-2 Epoxy Hardener

Section 1 Identification

Product Identifiers

Freeman 815-2 Epoxy Hardener (Part B)

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

Iron-filled epoxy hardener for two-part casting 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 Phone Number
CHEMTREC: (800) 424-9300

Section 2 Hazards Identification

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

Skin Irritation, Category 2
Eye Damage, Category 1
Skin Sensitization, Category 1
Specific Target Organ Toxicity, Repeat Exposure, Category 2

Label elements



Danger

Hazard Statements

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements

P260 Do not breathe dusts or mists.
P261 Avoid breathing vapors.
P264 Wash thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves.
P302+P352 IF ON SKIN: Wash with plenty of water.
P305+P354+P338 IF IN EYES: Immediately rinse with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P317 Get medical help.
P319 Get medical help if you feel unwell.
P362+P364 Take off contaminated clothing and wash before reuse.
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.

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Freeman 815-2 Epoxy Hardener

Section 3 Composition/Information on Ingredients

Ingredient Name	CAS Number	Concentration (%)
Benzyl Alcohol	100-51-6	20-30
Triethylenetetramine	112-24-3	≤10

Other ingredients are not listed because they are either not hazardous or are below cut-off/concentration thresholds.

Section 4 First Aid Measures

Description of First Aid Measures

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 immediately.

Skin Contact: Remove contaminated clothing. Wash contact area thoroughly with soap and water. Get medical attention immediately. 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: Do not induce vomiting. Get medical attention if you feel unwell.

Most Important Symptoms/Effects

Causes serious eye damage. May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure.

Indication of Immediate Medical Attention/Special Treatment

Get medical help if in eyes.

Section 5 Fire-Fighting Measures

Extinguishing Media

Use 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.

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.

Freeman 815-2 Epoxy Hardener

Section 7 Handling and Storage

Safe Handling

Obtain, read, and follow instructions before use. Avoid contact with eyes, skin, and clothing. Do not breathe vapors. When using, do not eat, drink, or smoke. Use outdoors or 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

None established.

Appropriate Engineering Controls

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

Personal Protective Equipment

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. Use respirators in accordance with OSHA's Respiratory Protection Standard (29 CFR 1910.134). 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

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	No data available
Solubility	Insoluble in water
Coefficient: n-Octanol/ Water	No data available
Auto-Ignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available

Freeman 815-2 Epoxy Hardener

Section 10 Stability and Reactivity

Reactivity: Not normally reactive.

Chemical Stability: Stable under recommended conditions.

Possibility of Hazardous Reactions: No data available.

Conditions to Avoid: Keep away from open flames, hot surfaces, sources of ignition.

Incompatible Materials: Avoid strong acids, strong oxidizing agents, strong reducing agents, acid chlorides, acid anhydrides, hypochlorites.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, nitrogen oxides, ammonia, and nitric acid.

Section 11 Toxicological Information continued

Acute Toxicity Values

Chemical	Oral LD ₅₀ Rat	Dermal LD ₅₀ Rabbit
Triethylenetetraamine (CAS 112-24-3)	>2,000 mg/kg	>2,000 mg/kg
Benzyl Alcohol (CAS 111-41-1)	2,020 mg/kg	2,000 mg/kg

Acute Health Effects

Eye Contact: Causes serious eye damage.

Skin Contact: Causes skin irritation.

Inhalation: No data available.

Ingestion: No data available.

Chronic Health Effects

Respiratory Sensitization: This product is not considered a respiratory sensitizer.

Skin Sensitization: This product may cause an allergic skin reaction.

Germ Cell Mutagenicity: This product is not considered a mutagen.

Carcinogenicity: This product is not classified as a suspected carcinogen.

Reproductive Toxicity: This product is not a reproductive toxin.

Specific Target Organ Toxicity (STOT), Single Exposure: No data available

STOT, Repeated Exposure: May cause damage to organs through prolonged or repeated exposure.

Section 12 Ecological Information

Ecotoxicity: No data available. Avoid release to the environment.

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Section 13 Disposal Considerations

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

Section 14 Transport Information

DOT/IATA/IMDG

Not regulated for transport in any mode.

Freeman 815-2 Epoxy Hardener

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 chemicals known to the State of California to cause cancer and/or 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.

Disclaimer

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Initial Issue Date: November 22, 2021

Previous Revision Date: July 14, 2022

Current Revision Date: December 18, 2024