

Section 1 Identification

Product Identifiers

Product name: Freeman 850 Part A (Resin)

Relevant Identified Uses of the Substance or Mixture

High-Temperature Epoxy Casting Resin, For Professional Use Only

Details of the Supplier of the Safety Data Sheet

Freeman Manufacturing & Supply Company

1101 Moore Road, Avon, OH 44011

Phone (440) 934-1902

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

Acute Toxicity, Inhalation, Category 4

Skin Irritation, Category 2

Eye Irritation, Category 2

Skin Sensitizer, Category 1

Hazardous to the Aquatic Environment Chronic Hazard, Category 2

GHS Label Elements, Including Precautionary Statements



Signal word

Warning

Hazard statements

Harmful if swallowed.

Harmful in contact with skin.

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

Harmful if inhaled

Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

Avoid breathing fumes, mist, vapors, and spray.

Wash hands thoroughly after handling.

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

Use only outdoors or in well-ventilated area.

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

Avoid release to the environment.

Wear protective gloves, clothing, and eye/face protection.

Response

IF SWALLOWED: Rinse mouth. Get medical attention.

Freeman 850 Part A (Resin)

Section 2 Hazards Identification continued

IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical attention. Take off contaminated clothing and wash it before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Collect spillage.

Storage

Store in a well-ventilated place. Store locked up.

Disposal

Dispose of contents and containers to an appropriate waste site in accordance with local, regional, and national regulation.

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 (%)
Epoxy Phenol Novolac Resin	28064-14-4	10-25
Bisphenol A Epoxy Resin	25068-38-6	20-35
Aliphatic Epoxy Resin	2425-79-8	0-10
Exact concentrations are withheld as trade secret. 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 develops or persists.

Skin Contact: Immediately remove contaminated clothing and shoes. Wash the affected area with plenty of soap and water. Wash contaminated clothing before reuse. Discard clothing that cannot be decontaminated. Get medical attention if irritation develops or persists.

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

Ingestion: Do not induce vomiting unless directed to do so by a medical professional. 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 symptomatically.

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 unnecessary, unprotected personnel from the area. Wear appropriate protective clothing to prevent eye and skin contact. 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 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. Store locked up.

Section 8 Exposure Controls/Personal Protection

Occupational Exposure Limits

None established.

Ventilation

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

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)

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	Viscous liquid
Color	Gray
Odor	Mild
Odor Threshold	No data available
pH	No data available
Melting/Freezing Point	No data available
Boiling Point	No data available
Flash Point	>110°C
Evaporation Rate	No data available
Flammability Limits	No data available
Vapor Pressure	<1 mm Hg at 20°C
Vapor Density	No data available.
Relative Density	1.71
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	166,000 cP at 25°C
Volatile Organic Content (VOC)	1.62 g/L
% Volatile	0.10

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

Excessive heat.

Incompatible Materials

Avoid contact with strong acids, bases, oxidizing agents, and amines.

Hazardous Decomposition Products

Carbon monoxide, carbon dioxide, and oxides of nitrogen.

Section 11 Toxicological Information

Eye Contact:	Causes serious eye damage.
Skin Contact:	Harmful in contact with skin. Causes severe skin burns. May cause allergic skin reaction.
Inhalation:	May cause respiratory irritation.
Ingestion:	Harmful if swallowed.
Chronic Health Effects:	Allergic skin reaction.

Section 11 Toxicological Information continued

Acute Toxicity Values

Chemical Name	LC ₅₀ Inhalation (Rat)	LD ₅₀ Oral (Rat)	LD ₅₀ Dermal (Rabbit)
Epoxy Phenol Novolac Resin	Not available	>2,000 mg/kg	>2,000 mg/kg
Bisphenol A Epoxy Resin	Not available	>2,000 mg/kg	>2,000 mg/m ³
Aliphatic Epoxy Resin	>250 ppm, 6hr	1,134 mg/kg	1,130 mg/kg

Respiratory Sensitization: Components are not respiratory sensitizers.
Skin Sensitization: May cause an allergic skin reaction.
Germ Cell Mutagenicity: Components are not mutagens.
Carcinogenicity: Components are not carcinogens.
Reproductive Toxicity: Components are not reproductive toxins.
Specific Target Organ Toxicity
Single Exposure: No data available.
Repeated Exposure: No data available.
Aspiration Hazard: No data available.

Section 12 Ecological Information

Toxicity

Toxic to aquatic life with 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

Disposal

Dispose of according to local, state, and federal regulations. Do not release into drains or sewers.

Section 14 Transport Information

DOT, TDG, IMDG, ICAO/IATA

UN Number: UN3082

UN Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Epoxy Resin)

Hazard Class: 9

Packing Group: III

Other Information

U.S. DOT: Non-bulk Packaging (<882lb. or <119gal.): Not regulated transport by truck.

Canada TDG: Non-bulk Packaging (<882lb. or <119gal.): Not regulated transport by truck.

Section 14 Transport Information continued

Environmental Hazards

Marine Pollutant: Yes
Hazardous Substance (USA): Yes

Special Precautions for User

Information is not available.

Section 15 Regulatory Information

U.S. Federal Regulations

CERCLA 103 Reportable Quantity: This product is not subject to reporting under CERCLA. Some states have more stringent reporting requirements.

SARA Title III Section 311/312: Acute Health, Chronic Health.

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.

Canadian Environmental Protection Act (CEPA) Status: All components are listed on either the Domestic Substances List (DSL) or the Non-Domestic Substances List (NDSL).

State Regulations

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

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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Issue Date: March 11, 2022

Revision Date: September 2, 2022

Section 1 Identification

Product Identifiers

Product name: Freeman 51 Part B (Hardener)

Relevant Identified Uses of the Substance or Mixture

High-Temperature Epoxy Casting System Catalyst, For Professional Use Only

Details of the Supplier of the Safety Data Sheet

Freeman Manufacturing & Supply Company

1101 Moore Road, Avon, OH 44011

Phone (440) 934-1902

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)

Flammable Liquids, Category 4

Acute Toxicity, Oral, Category 4

Acute Toxicity, Dermal, Category 4

Skin Corrosion, Category 1B

Eye Damage, Category 1

Skin Sensitizer, Category 1B

Specific Target Organ Toxicity, Repeated Exposure, Category 2

Hazardous to the Aquatic Environment, Acute, Category 1

Hazardous to the Aquatic Environment, Chronic, Category 1

GHS Label Elements, Including Precautionary Statements



Signal word

Danger

Hazard statements

Combustible liquid.

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.

May cause damage to organs through prolonged or repeated exposure.

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

Do not breathe dusts or mists.

Wash hands 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 into the environment.

Wear protective gloves, clothing, and eye/face protection.

Freeman 51 Part B (Hardener)

Section 2 Hazards Identification continued

Response

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call Poison Center and/or doctor if you feel unwell.

IF ON SKIN: Immediately take off all contaminated clothing. Immediately rinse with water for several minutes. If skin irritation or rash occurs: Get medical attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Storage

Store in a well-ventilated place. Store locked up.

Disposal

Dispose of contents and containers to an appropriate waste site in accordance with local, state, and federal 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 (%)
1,2-Cyclohexanediamine	698-83-7	40-60
Diethylmethylbenzenediamine	68479-98-1	25-40
2-Ethyl-4-methylimidazole	931-36-2	10-20
Amounts specified are typical and do not represent a specification. Remaining components are proprietary, 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: Remove contaminated clothing. Wash contact area thoroughly with soap and water until no evidence of the chemical remains (at least 15-20 minutes). Get medical attention immediately. Wash contaminated clothing before reuse. Discard clothing that cannot be decontaminated.

Inhalation: Remove person to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if symptoms develop or persist.

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 for additional information.

Indication of Immediate Medical Attention/Special Treatment

Treat symptomatically.

Section 5 Fire-Fighting Measures

Extinguishing Media

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

Special 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. Irritating or toxic substances may be emitted upon burning, combustion, or decomposition. See Section 10 for additional information.

Special Protective Equipment & Precautions for Fire-Fighters

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 clean-up immediately after a fire as well as during the attack phase of fire-fighting operations. See Section 9 for additional information.

Section 6 Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures

If spilled in an enclosed area, ventilate. Eliminate ignition sources. Personal Protective Equipment must be worn. See Section 8 for recommendations on the use of PPE.

Environmental Precautions

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

Methods and Materials 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 laundry before reuse.

Section 7 Handling and Storage

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.

Safe Storage

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.

Freeman 51 Part B (Hardener)

Section 8 Exposure Controls/Personal Protection

Occupational Exposure Limits

Chemical Name	CAS Number	ACGIH - TWA	ACGIH - STEL
1,2-Cyclohexanediamine	698-83-7	Not available	Not available
Diethylmethylbenzenediamine	68479-98-1	Not available	Not available
2-Ethyl-4-methylimidazole	931-36-2	Not available	Not available

Ventilation

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.

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 limit(s) 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

Wear chemical safety glasses or goggles.

Other Protective Measures

Eyewash fountains and safety showers are recommended in the work area.

Section 9 Physical and Chemical Properties

Appearance	Liquid
Color	Pale, darkens with time
Odor	Amine-like
Odor Threshold	No data available
pH	No data available
Melting/Freezing Point	No data available
Boiling Point	No data available
Flash Point	>75°C (Closed Cup)
Evaporation Rate	No data available
Flammability Limits	No data available
Vapor Pressure	<1 mm Hg at 25°C
Vapor Density	Heavier than air
Relative Density	0.98
Solubility	No data available
Coefficient: n-Octanol/Water	No data available
Auto-Ignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	40 cP at 25°C
Volatile Organic Content (VOC)	1.62 g/L
% Volatile	0.10

Freeman 51 Part B (Hardener)

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 storage conditions.

Possibility of Hazardous Reactions

Hazardous polymerization will occur. This product will auto polymerize at very high temperatures.

Conditions to Avoid

Excessive heat and ignition sources. Exposure to moisture.

Incompatible Materials

Avoid contact with amines. Avoid oxidizing agents, acids, acid chlorides, and acid anhydrides.

Hazardous Decomposition Products

Carbon monoxide, carbon dioxide, and oxides of nitrogen.

Section 11 Toxicological Information

Eye Contact: Causes serious eye damage.
Skin Contact: Toxic in contact with skin. Causes severe skin burns.
Inhalation: Exposure to vapors or mists may cause severe irritation and burns of the nose, throat, and respiratory tract.
Ingestion: Harmful if swallowed. Ingestion may cause severe irritation and burns of the mouth, throat, and digestive tract.
Chronic Health Effects: No data available.

Acute Toxicity Values

Chemical Name	LC ₅₀ Inhalation (Rat)	LD ₅₀ Oral (Rat)	LD ₅₀ Dermal (Rabbit)
1,2-Cyclohexanediamine	3.2 mg/L	4,556 mg/kg	Not available
Diethylmethylbenzenediamine	Not available	738 mg/kg	>2,000 mg/kg
2-Ethyl-4-methylimidazole	Not available	731 mg/kg	>400 mg/kg

Skin Corrosion: Skin corrosion – Category 1B
Serous Eye Damage: Eye damage – Category 1
Respiratory Sensitization: Components are not respiratory sensitizers.
Skin Sensitization: Skin sensitization – Category 1B
Germ Cell Mutagenicity: No data available.
Carcinogenicity: No data available.
Reproductive Toxicity: No data available.
Specific Target Organ Toxicity
 Single Exposure: No data available.
 Repeated Exposure: Category 2
Aspiration Hazard: No data available.

Freeman 51 Part B (Hardener)

Section 12 Ecological Information

Toxicity

Chemical Name	LC ₅₀ 96 hr. (Fish)	EC ₅₀ 48 hr. (Daphnia)	EC ₁₀ 96 hr. (Algae)
1,2-Cyclohexanediamine	Not available	Not available	Not available

Chemical Name	LC ₅₀ 48 hrs. (Golden Orfe)	EC ₅₀ 48 hrs. (Daphnia Magna)	EC ₅₀ 72 hrs. (Algae)	EC ₅₀ 24 hrs. (Bacteria P. Putida)
Diethylmethylbenzenediamine	200 mg/L	0.5 mg/L	104 mg/L	>170 mg/L

Chemical Name	LC ₅₀ 96 hr. (Fish)	EC ₅₀ 48 hr. (Daphnia)	EC ₁₀ 96 hr. (Algae)
2-Ethyl-4-methylimidazole	>46-100 mg/L	300 mg/L	79 mg/L

Persistence and Degradability

Chemical Name	Test	Period	Result
1,2-Cyclohexanediamine	Not available	N/A	N/A
Diethylmethylbenzenediamine	OECD Test Guideline 301D - Closed Bottle Test	28 Days	<1%
2-Ethyl-4-methylimidazole	Not readily biodegradable.		

Bioaccumulative Potential

Chemical Name	Log K _{ow}	BCF	Potential
1,2-Cyclohexanediamine	Not available	Not available	Not available
Diethylmethylbenzenediamine	Not available	2.75	Not available
2-Ethyl-4-methylimidazole	1.64	Not available	Not available

Mobility in Soil

Chemical Name	Soil/Water Partition Coefficient (K _{oc})
1,2-Cyclohexanediamine	Not available
Diethylmethylbenzenediamine	Not available
2-Ethyl-4-methylimidazole	Not available

Section 13 Disposal Considerations

Disposal

Dispose of unused contents and container according to local, state, and federal 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

DOT, TDG, ADR/RID, IMDG, ICOA/IATA

UN Number: UN2735

UN Proper Shipping Name: Amines, Liquid, Corrosive, N.O.S. (Diaminocyclohexane)

Hazard Class: 8

Packing Group: II

Environmental Hazards

Marine Pollutant: Yes

Hazardous Substance (USA): No

Label for Conveyance



Section 15 Regulatory Information

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.

Chemical Inventories

DSL: Yes

NDSL: No

EINECS: Yes

ELINCS: No

TSCA: Yes

Section 16 Other Information

Disclaimer

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Issue Date: January 12, 2022

Revision Date: September 2, 2022