

Safety Data Sheet
Freeman 5075 Resin (Part A)

Section 1 Identification

Product Identifiers

Freeman 5075 Resin (Part A)

Relevant Identified Uses of the Substance or Mixture

Resin for epoxy adhesive designed specifically for gluing red foundry boards.

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: contacus@freemansupply.com

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

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 Phrases

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 curative before using.

Safety Data Sheet

Freeman 5075 Resin (Part A)

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

Amounts specified are typical and do not represent a specification. Additional components may not be listed if non-hazardous, and/or present at amounts below reportable 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: 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

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.

Methods and Materials for Containment and Cleanup

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

Do not discharge material into waterways. 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.

Safety Data Sheet

Freeman 5075 Resin (Part A)

Section 7 Handling and Storage

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

None established.

Appropriate Engineering Controls

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

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 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/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	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

Section 10 Stability and Reactivity

Reactivity: Not normally reactive.

Chemical Stability: Stable under recommended 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.

Incompatible Materials: Avoid contact with strong oxidizing agents, acids, alkalis, amines, and mercaptans.

Safety Data Sheet

Freeman 5075 Resin (Part A)

Section 10 Stability and Reactivity

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

Acute 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.

Chronic Health Effects

Respiratory Sensitization: Components are not respiratory sensitizers.

Skin Sensitization: Causes 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: 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

Dispose according to local, state and federal regulations. Do not dump in drains or sewers.

Section 14 Transport Information

DOT

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

Not regulated as a hazardous material in containers of 55-gallons or less.

IMDG/IATA

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

Excepted from IMDG and IATA regulations in containers of 5 liters or less (see IMDG 2.10.2.7 and IATA SP A197).

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.

Safety Data Sheet
Freeman 5075 Resin (Part A)

Section 15 Regulatory Information continued

SARA TITLE III, Section 311/312: See Section 2

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

U. S. 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.

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.

Initial release date: November 19, 2021

Previous release date: November 19, 2021

Current revision date: February 28, 2025

Safety Data Sheet
Freeman 5075 Hardener (Part B)

Section 1 Identification

Product Identifiers

Freeman 5075 Hardener (Part B)

Relevant Identified Uses of the Substance or Mixture

Hardener for epoxy adhesive designed specifically for gluing red foundry boards.
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: contacus@freemansupply.com

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
Acute Toxicity (Inhalation), Category 2
Skin Irritation, Category 1B
Skin Sensitization, Category 1
Reproductive Toxin, Category 2
Specific Target Organ Toxicity, Single Exposure (Lungs), Category 3
Hazardous to the Aquatic Environment - Acute Hazard, Category 2

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.
H330 Fatal if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H361 Suspected of damaging fertility or the unborn child.
H411 Toxic to aquatic life with long lasting effects.

Precautionary Phrases:

P203 Obtain, read and follow all safety instructions before use.
P260 Do not breathe fumes, vapors, mists or sprays.
P264 Wash 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.
P273 Avoid release to the environment.
P280 Wear protective gloves, protective clothing, eye protection and face protection.
P284 In case of inadequate ventilation, wear respiratory protection.

Freeman 5075 Hardener (Part B)

Section 2 Hazards Identification continued

P301+P317 IF SWALLOWED: Get medical help.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P352 IF ON SKIN: Wash with plenty of water.
P302+P361+P354 IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P354+P338 IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P316 Get emergency medical help immediately.
P317 Get medical help.
P318 IF exposed or concerned, get medical advice.
P319 Get medical help if you feel unwell.
P330 Rinse mouth.
P333+P317 If skin irritation or rash occurs: Get medical help.
P362+P364 Take off contaminated clothing and wash before reuse.
P363 Wash contaminated clothing before reuse.
P391 Collect spillage.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
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 (%)
Diethylenetriamine	111-40-0	35-45
Bisphenol A epichlorohydrin polymer	25068-38-0	20-40
4,4'-Isopropylidenediphenol (Bisphenol A)	80-05-7	20-30

Amounts specified are typical and do not represent a specification. Additional components may not be listed if non-hazardous, and/or present at amounts below reportable limits.

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 if irritation develops or persists.

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 immediately.

Ingestion: Rinse mouth and drink several glasses of water. Do not induce vomiting. Get medical attention immediately.

Most Important Symptoms/Effects

Fatal if inhaled. Harmful if swallowed and in contact with skin.

Safety Data Sheet

Freeman 5075 Hardener (Part B)

Section 4 First Aid Measures

Indication of Immediate Medical Attention/Special Treatment

Get immediate medical attention if on skin, swallowed, or inhaled.

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

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

Do not discharge material into waterways. Avoid releases to the environment.

Section 7 Handling and Storage

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 Name	ACGIH TLV	NIOSH REL
Diethylenetriamine (CAS 111-40-0)	4.3 mg/m ³ TWA	TWA 1 ppm (4 mg/m ³) [skin]

Appropriate Engineering Controls

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 ventilation is not adequate, use an approved respirator with organic vapor cartridges or supplied air. 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 goggles or face shield.

Freeman 5075 Hardener (Part B)

Section 8 Exposure Controls/Personal Protection

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	Amber Liquid
Odor	Amine
Odor Threshold	No data available
pH	Alkaline
Melting/Freezing Point	No data available
Boiling Point	No data available
Flash Point	>199.9°F
Evaporation Rate	<1
Flammability Limits	No data available
Vapor Pressure	<1 mm Hg at 20°C
Vapor Density	>1
Relative Density	1.05±0.05 g/cm ³
Solubility	Insoluble in water
Coefficient: n-Octanol/ Water	No data available
Auto-Ignition Temperature	>572°F
Decomposition Temperature	No data available
Viscosity	3,400-5,000 cP

Section 10 Stability and Reactivity

Reactivity: Not normally reactive.

Chemical Stability: Stable under recommended conditions.

Possibility of Hazardous Reactions: Mixtures with strongly acidic or strongly alkaline materials may produce an exothermic reaction.

Conditions to Avoid: Avoid elevated temperatures and sources of ignition.

Incompatible Materials: Avoid strong acids, strong oxidizing agents, strong reducing agents, acid chlorides, acid anhydrides, hypochlorites. Mixtures with nitriles may generate carcinogenic N-Nitrosamines.

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

Section 11 Toxicological Information

Acute Toxicity Values

Ingredient Name	CAS Number	Oral LD₅₀ Rat	Dermal LD₅₀ Rabbit	Inhalation LD₅₀ Rat
Diethylenetriamine	111-40-0	1,836 mg/kg	1,986 mg/kg	0.30 mg/L

Safety Data Sheet

Freeman 5075 Hardener (Part B)

Section 11 Toxicological Information

Acute Health Effects

Eye Contact: May cause mild eye irritation.

Skin Contact: Harmful in contact with skin. Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Inhalation: Fatal if inhaled. May cause respiratory irritation.

Ingestion: Harmful if swallowed.

Chronic Health Effects

Respiratory Sensitization: Components are not classified as respiratory sensitizers.

Skin Sensitization: May cause an allergic skin reaction.

Germ Cell Mutagenicity: Components are not classified as mutagens.

Carcinogenicity: Components are not classified as carcinogens.

Reproductive Toxicity: Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity: May cause respiratory irritation, drowsiness or dizziness.

Section 12 Ecological Information

Ecotoxicity: Toxic to aquatic life with long lasting effects.

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Section 13 Disposal Considerations

Dispose according to local, state, and federal regulations.

Section 14 Transport Information

DOT

UN2079, Diethylenetriamine, 8, II.

LTD QTY if shipped in quantities of 1L (0.3 gal.) or less.

IMDG/IATA

UN2079, Diethylenetriamine, 8, II.

Section 15 Regulatory Information

U.S. Federal Regulations

CERCLA 103 Reportable Quantity: This product is not subject to these reporting requirements.

Some states have more stringent reporting requirements.

SARA TITLE III, Section 311/312: See Section 2

Section 313 Toxic Chemicals: This product contains the following chemicals subject to SARA Title III

Section 313 Reporting requirements: 4,4'-Isopropylidenediphenol (CAS 80-05-7) 20-30%

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.

U.S. State Regulations

California Proposition 65: ⚠️ WARNING: This product contains Bisphenol A (CAS 80-05-7), a chemical known to the State of California to cause cancer, birth defects and/or other reproductive harm. For more information, visit www.P65Warnings.ca.gov.

Safety Data Sheet

Freeman 5075 Hardener (Part B)

Section 15 Regulatory Information

REACH Regulation

Candidate List of substances of very high concern for Authorisation (Article 59(10)): Contains 20-30% w/w of 4,4'-isopropylidenediphenol (Bisphenol A; BPA) CAS 80-05-7

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 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.

Initial release date: November 19, 2021

Previous release date: November 19, 2021

Current revision date: February 28, 2025