

Freeman 1080 Polyurethane Casting Resin

Section 1 Identification

Product identifiers

Product name: Freeman 1080 Polyurethane Casting Resin Part A

Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Polyurethane Elastomer

Details of the supplier of the safety data sheet

Freeman Manufacturing and Supply Company
 1101 Moore Road, Avon, OH 44011
 Phone (440) 934-1902
 FAX (440) 934-7200

HMIS

H	2
F	1
R	1
PPE	
Sec. 8	

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

Section 2 Hazards Identification

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

- Skin Corrosion/Irritation, Category 2
- Skin Sensitization, Category 1
- Eye Damage/Irritation, Category 2B
- Acute Toxicity, Inhalation, Category 4
- Respiratory Sensitization, Category 1
- Specific Target Organ Toxicity-Single Exposure, Category 3 (Respiratory)
- Carcinogenicity, Category 2
- Specific Target Organ Toxicity-Repeat Exposure, Category 2 (Respiratory)

Hazard pictograms:



Signal word: Danger

Hazard statements

- Causes skin irritation
- May cause an allergic skin reaction
- Causes eye irritation
- Harmful if inhaled
- May cause allergy or asthma symptoms or breathing difficulties if inhaled
- May cause respiratory irritation
- Suspected of causing cancer
- May cause damage to organs (olfactory) through prolonged or repeated exposure (inhalation).

Precautionary statements

Prevention

- Do not handle until all safety precautions have been read and understood.
- Do not breathe dust/fume/gas/mist/vapors/spray.

Freeman 1080 Polyurethane Casting Resin

Section 2 Hazards Identification continued

Use only outdoors or in a well-ventilated area.
 Contaminated work clothing should not be allowed out of the workplace.
 Wear protective gloves/protective clothing/eye protection/face protection.
 In case of inadequate ventilation wear respiratory protection.
 Wash with soap and water thoroughly after handling.
 Do not eat, drink or smoke when using this product.

Response

If on skin: Wash with plenty of soap and water.
 If inhaled: Remove victim to fresh air.
 If in eyes: Rinse continuously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. If eye irritation persists: Get medical advice/attention.
 If on skin: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
 If swallowed, do not induce vomiting. Call physician immediately.

Storage

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal

Dispose of contents/container according to local, regional, national, and international regulations.

Section 3 Composition/Information on Ingredients

Ingredient Name	CAS Number	Concentration (%)
4,4' Methylene bis(phenylisocyanate) (MDI)	101-68-8	15-35
Benzene, 1,1'-methylenebis[4-isocyanato-], homopolymer	25686-28-6	5-10
Methylenediphenyl diisocyanate	26447-40-5	<1.5

Section 4 First Aid Measures

Description of first aid measures

Inhalation

Remove source(s) of contamination and move victim to fresh air. If breathing has stopped, give artificial respiration, then oxygen if needed. Contact physician immediately.

Eye Contact

Flush eyes with plenty of water occasionally lifting the upper and lower eyelids. Check and remove any contact lenses if safe to do so. Continue to rinse for at least 15 minutes. If irritation develops, seek medical attention.

Skin Contact

In case of skin contact, wash thoroughly with soap and water. Continue to rinse for at least 15 minutes. Chemical burns must be treated promptly by a physician.

Ingestion

Do not induce vomiting unless instructed by a physician. Never give anything by mouth to an unconscious person. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.

Section 4 First Aid Measures continued

Most important symptoms and effects, both acute and delayed

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Section 5 Fire-Fighting Measures

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

In a fire or if heated, a pressure increase will occur, and the container may burst.

Advice for firefighters

Use water spray to cool fire-exposed surfaces and to protect personnel. Shut off "fuel" to fire. If a leak or spill has not ignited, use water spray to disperse the vapors. Either allow fire to burn under controlled conditions or extinguish with foam or dry chemical. Try to cover liquid spills with foam. Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full-face piece operated in pressure demand or positive-pressure mode.

Section 6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Only properly protected personnel should remain in the spill area; dike and contain spill. Stop or reduce discharge if it can be done safely.

Environmental precautions

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains or unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers. No special environmental precautions required.

Methods and material for containment and cleaning up

Put on appropriate protective gear including NIOSH/MSHA approved self-contained breathing apparatus, rubber boots and heavy rubber gloves. Dike and contain spill; absorb or scrape up excess into suitable container for disposal; wash area with dilute ammonia solution. Stop or reduce discharge if it can be done safely. Follow applicable OSHA regulations (29 CFR 1910.120) for disposal.

Reference to other sections

See Section 3 for list of Hazardous Ingredients; Sections 8 for Exposure Controls; and Section 13 for Disposal.

Section 7 Handling and Storage

Precautions for safe handling

Use good general housekeeping procedures. Wash hands after use. Do not get in eyes, on skin or on clothing. Do not breathe vapors or mists. Use good personal hygiene practices.

Conditions for safe storage, including any incompatibilities

Keep container(s) tightly closed and properly labeled. Store in cool, dry, well ventilated place away from heat, direct sunlight, strong oxidizers and any incompatibles. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use.

Freeman 1080 Polyurethane Casting Resin

Section 7 Handling and Storage continued

Indoor storage should meet local standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty containers retain residue and may be dangerous. Avoid water contamination.

Specific end use(s)

These precautions are for room temperature handling. Other uses including elevated temperatures or aerosol/spray applications may require added precautions.

Section 8 Exposure Controls/Personal Protection

Components with workplace control parameters

Component	OSHA Z-1	ACGIH TLV
4,4' Methylene bis(phenylisocyanate) (MDI)	0.02 ppm 0.2 mg/m ³	TWA value 0.005 ppm

Appropriate engineering controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mists and/or vapors below the recommended exposure limits. An eye wash station and safety shower should be located near the workstation.

Personal protective equipment

Eye/face protection

Use safety glasses equipped with side shields.

Hand Protection

Wear any liquid-tight gloves such as butyl rubber, neoprene or PVC. Contaminated gloves should be replaced.

Body Protection

Prevent skin contact when handling material

Respiratory Protection

The need for respiratory protection is not anticipated under normal use conditions and with adequate ventilation. If elevated airborne concentrations above applicable workplace exposure levels are anticipated, a NIOSH-approved organic vapor respirator equipped with a dust/mist prefilter should be used.

General Hygienic Practices

Avoid contamination of food, beverages, or smoking materials. Wash thoroughly after handling, and before eating, drinking or smoking. Remove contaminated clothing promptly and clean thoroughly before reuse.

Section 9 Physical and Chemical Properties

Appearance	Amber liquid
Odor	Musty
Odor threshold	No data available
pH	Not applicable
Melting Point/Freezing Point	37°F
Initial boiling point/boiling range	>300°F
Flash Point	>300°F
Evaporation rate	No data available
Flammability (solid, gas)	No data available

Section 9 Physical and Chemical Properties continued

Upper/lower flammability	No data available
Vapor pressure at 68°F	<0.00016 mmHg
Vapor density (Air=1)	>1
Specific gravity	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	30-100 cP
Danger of explosion	Not applicable
% Volatile	0% (v/v), 0% (w/w)

Section 10 Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated. No corrosive effect on metal. Not fire propagating.

Chemical stability

These products are stable at room temperature in closed containers under normal storage and handling conditions.

Possibility of hazardous reactions

Polymerization cannot occur.

Conditions to avoid

None known

Incompatible materials

Strong acids and bases

Hazardous decomposition products

Thermal oxidative decomposition can produce carbon oxides, gases/vapors and traces of incompletely burned carbon compounds.

Section 11 Toxicological Information

Information on toxicological effects

Acute Toxicity

Calculated based on MDI

LD50 oral (rat): > 6,250 mg/kg

LC50 inhalation (rat): >6.25 mg/l (OECD Guideline 403)

LD50 dermal (rabbit): > 29,400 mg/kg

Chronic Exposure: NOAEL: 0.6 mg/m³; LOAEL: 3.1 mg/m³ (based on MDI)

Skin Corrosion/Irritation

Draize test (rabbit): irritating (based on MDI).

Serious Eye Damage/Irritation

Draize test (rabbit): irritating (based on MDI).

Freeman 1080 Polyurethane Casting Resin

Section 11 Toxicological Information continued**Respiratory/Skin Sensitization**

Buehler test (guinea pig): sensitizing

Mouse Local Lymph Node Assay (LLNA): sensitizing, can cause skin sensitization.

Studies in animals suggest that dermal exposure may lead to pulmonary sensitization.

However, the relevance of this result for humans is unclear.

Germ Cell Mutagenicity

No data available

Carcinogenicity

A carcinogenic potential cannot be excluded after prolonged exposure to severely irritating concentrations. These effects are not relevant to humans at occupational levels of exposure. OECD Guideline 453 rat inhalation 0, 0.2, 1, 6 mg/m³ result: lung tumors.

Reproductive Toxicity

Repeated inhalation uptake of the substance did not cause damage to the reproductive organs.

Assessment of teratogenicity showed that the substance did not cause malformations in animal studies, however toxicity to development was observed at high doses that were toxic to the parental animals.

Development:

OECD Guideline 414 rat inhalation 0, 1, 4, 12 mg/m³

NOAEL Mat: 4 mg/m³

NOAEL Teratogenic: 4 mg/m³

Specific Target Organ Toxicity – Single Exposure

Causes temporary irritation of the respiratory tract.

Specific Target Organ Toxicity – Repeated Exposure

No data available

Aspiration Hazard

No data available

Section 12 Ecological Information

Ecotoxicity: LC₀ (96 h): > 1,000 mg/l, *Brachydanio rerio* (OECD Guideline 203, static)

EC₅₀ (24 h): > 1,000 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)

EC₀ (72 h): 1,640 mg/l (growth rate), *Scenedesmus subspicatus*, (OECD Guideline 201, static)

Persistence and degradability: Poorly biodegradable (0% BOD OECD Guideline 302 C). This product is unstable in water. The elimination data also refer to products of hydrolysis.

Bioaccumulative potential: Significant accumulation in organisms is not to be expected.

Bioconcentration factor 200 (28 d) *Cyprinus carpio* (OECD Guideline 305 E)

Mobility in soil: Adsorption to solid soil phase is not expected.

Results of PBT & vPvB assessment No data available

Other Adverse Effects: The substance will not evaporate into the atmosphere from the water surface.

Section 13 Disposal Considerations**Waste treatment methods**

Under Resource Conservation and Recovery Act (RCRA) it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for

Freeman 1080 Polyurethane Casting Resin**Section 13 Disposal Considerations continued**

hazardous waste as defined in 40 CFR Part 261. Waste management should be in full compliance with federal, state and local laws. Regulations may vary in various locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

Container disposal

Steel drums must be emptied and can be sent to a licensed drum reconditioner for reuse, a scrap metal dealer or an approved landfill. Do not attempt to refill or clean containers since residue is difficult to remove. Under no circumstances should empty drums be burned or cut open with gas or electric torch as toxic decomposition products may be liberated. Do not reuse empty containers.

Section 14 Transport Information

DOT: Not Regulated

IMDG: Not Regulated

IATA: Not Regulated

Section 15 Regulatory Information**REACH: Regulation (EC) No 1907/2006 of The European Parliament and of The Council of December 2006 (including amendments and corrigenda as of 17 February 2016)**

This product complies with REACH or is not subject to regulation under REACH. The product does not contain an ingredient listed on either the Candidate List or Authorization List for Substances of Very High Concern (SVHC).

TSCA Inventory Status (40 CFR710)

All components of this formulation are listed in the TSCA Inventory. No component of this formulation has been determined to be subject to manufacturing or use restrictions under the Significant New Use Rules (SNURs).

US Federal Regulations**CERCLA Hazardous Substance List (40 CFR 302.4)**

None known

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and community Right-to-Know Act of 1986) Sections 311 and 312

See Section 2

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313**Component CAS# Concentration (%wt)**

4,4' Methylene bis(phenylisocyanate) (MDI) 101-68-8 15 – 35%

California Proposition 65

This product does not intentionally contain any chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.

Section 16 Other Information

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.

Freeman 1080 Polyurethane Casting Hardener

Section 1 Identification													
<p>Product identifiers Product name: Freeman 1080 Polyurethane Casting Hardener Part B</p> <p>Relevant identified uses of the substance or mixture and uses advised against Identified uses: Polyurethane Elastomer</p> <p>Details of the supplier of the safety data sheet Freeman Manufacturing and Supply Company 1101 Moore Road, Avon, OH 44011 Phone (440) 934-1902 FAX (440) 934-7200</p> <p>24 Hour Emergency Phone Number: (800) 424-9300</p>	<table border="1"> <thead> <tr> <th colspan="2">HMIS</th> </tr> </thead> <tbody> <tr> <td>H</td> <td>1</td> </tr> <tr> <td>F</td> <td>0</td> </tr> <tr> <td>R</td> <td>0</td> </tr> <tr> <td colspan="2">PPE</td> </tr> <tr> <td colspan="2">Sec. 8</td> </tr> </tbody> </table>	HMIS		H	1	F	0	R	0	PPE		Sec. 8	
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PPE													
Sec. 8													
Section 2 Hazards Identification													
<p>GHS Classification in accordance with 29 CFR 1910.1200 (OSHA HCS) Not a hazardous substance or mixture according to United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard.</p> <p>GHS Label elements, including precautionary statements Hazard Pictogram: None Signal word: None</p> <p>Precautionary statements If medical advice is needed, have product container or label at hand</p>													
Section 3 Composition/Information on Ingredients													
<p>No ingredients are hazardous according to 2012 OSHA Regulation 29 CFR 1910.1200 criteria.</p>													
Section 4 First Aid Measures													
<p>Description of first aid measures</p> <p>Inhalation Remove source(s) of contamination and move victim to fresh air. If breathing has stopped, give artificial respiration, then oxygen if needed. Contact physician immediately.</p> <p>Eye Contact Flush eyes with plenty of water. If irritation persists, seek medical attention.</p> <p>Skin Contact In case of skin contact, wash thoroughly with soap and water.</p> <p>Ingestion Do not induce vomiting unless instructed by a physician. Never give anything by mouth to an unconscious person.</p> <p>Most important symptoms and effects, both acute and delayed None known</p>													

Freeman 1080 Polyurethane Casting Hardener

Section 5 Fire-Fighting Measures

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

None known.

Advice for firefighters

Use water spray to cool fire-exposed surfaces and to protect personnel. Shut off "fuel" to fire. If a leak or spill has not ignited, use water spray to disperse the vapors. Either allow fire to burn under controlled conditions or extinguish with foam or dry chemical. Try to cover liquid spills with foam. Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure demand or positive-pressure mode.

Section 6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Only properly protected personnel should remain in the spill area; dike and contain spill. Stop or reduce discharge if it can be done safely.

Environmental precautions

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains or unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers. No special environmental precautions required.

Methods and material for containment and cleaning up

Put on appropriate protective gear including NIOSH/MSHA approved self-contained breathing apparatus, rubber boots and heavy rubber gloves. Dike and contain spill; absorb or scrape up excess into suitable container for disposal; wash area with dilute ammonia solution. Stop or reduce discharge if it can be done safely. Follow applicable OSHA regulations (29 CFR 1910.120) for disposal.

Section 7 Handling and Storage

Precautions for safe handling

Use good general housekeeping procedures. Wash hands after use. Do not get in eyes, on skin or on clothing. Do not breathe vapors or mists. Use good personal hygiene practices.

Conditions for safe storage, including any incompatibilities

Keep container(s) tightly closed and properly labeled. Store in cool, dry, well ventilated place away from heat, direct sunlight, strong oxidizers and any incompatibles. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet local standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty containers retain residue and may be dangerous. Avoid water contamination.

Specific end use(s)

These precautions are for room temperature handling. Other uses including elevated temperatures or aerosol/spray applications may require added precautions.

Section 8 Exposure Controls/Personal Protection

Components with workplace control parameters

None identified

Appropriate engineering controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mists and/or vapors below the recommended exposure limits. An eye wash station and safety shower should be located near the workstation.

Personal protective equipment

Eye/face protection

With product at ambient temperatures, use safety glasses equipped with side shields.

Hand Protection

With product at ambient temperatures, Wear any liquid-tight gloves such as butyl rubber, neoprene or PVC. Contaminated gloves should be replaced.

Body Protection

Prevent skin contact when handling material

Respiratory Protection

The need for respiratory protection is not anticipated under normal use conditions and with adequate ventilation. If elevated airborne concentrations above applicable workplace exposure levels are anticipated, a NIOSH-approved organic vapor respirator equipped with a dust/mist prefilter should be used.

General Hygienic Practices

Avoid contamination of food, beverages, or smoking materials. Wash thoroughly after handling, and before eating, drinking or smoking. Remove contaminated clothing promptly and clean thoroughly before reuse. Contaminated clothing promptly and clean thoroughly before reuse.

Section 9 Physical and Chemical Properties

Appearance	Translucent viscous liquid
Odor	Mild to sweet
Odor threshold	No data available
pH	Not applicable
Melting point	No data available
Initial boiling point/boiling range	No data available
Flash point	>300°F (149°C)
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability	No data available
Vapor pressure	No data available
Vapor density (Air=1)	>1
Specific gravity	1.07
Solubility	Insoluble
Coefficient: n-octanol/ water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	100-300cP
% Volatile	Nil

Freeman 1080 Polyurethane Casting Hardener

Section 10 Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated., No corrosive effect on metal. Not fire propagating.

Chemical stability

These products are stable at room temperature in closed containers under normal storage and handling conditions.

Possibility of hazardous reactions

Hazardous polymerization cannot occur.

Conditions to avoid

None known

Incompatible materials

Strong acids and bases

Hazardous decomposition products

Thermal oxidative decomposition can produce carbon oxides, gases/vapors and traces of incompletely burned carbon compounds.

Section 11 Toxicological Information

Information on toxicological effects

Acute Toxicity

No data available

Skin Corrosion/Irritation

No data available

Serious Eye Damage/Irritation

No data available

Respiratory/Skin Sensitization

No data available

Germ Cell Mutagenicity

No data available

Carcinogenicity

No component of these products present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC, ACGIH or NTP.

Reproductive Toxicity

No data available

Specific Target Organ Toxicity - Single Exposure

No data available

Specific Target Organ Toxicity - Repeated Exposure

No data available

Aspiration Hazard

No data available

Freeman 1080 Polyurethane Casting Hardener
Section 12 Ecological Information

Ecotoxicity: No data available
Persistence and degradability: No data available.
Bioaccumulative potential: No data available
Mobility in soil: No data available
Results of PBT & vPvB assessment No data available
Other Adverse Effects: No data available

Section 13 Disposal Considerations
Waste treatment methods

Under Resource Conservation and Recovery Act (RCRA) it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste as defined in 40 CFR Part 261. Waste management should be in full compliance with federal, state and local laws. Regulations may vary in various locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

Container disposal

Steel drums must be emptied and can be sent to a licensed drum reconditioner for reuse, a scrap metal dealer or an approved landfill. Do not attempt to refill or clean containers since residue is difficult to remove. Under no circumstances should empty drums be burned or cut open with gas or electric torch as toxic decomposition products may be liberated. Do not reuse empty containers.

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TSCA Inventory Status (40 CFR710)

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US Federal Regulations
CERCLA Hazardous Substance List (40 CFR 302.4)

None known

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Freeman 1080 Polyurethane Casting Hardener

Section 15 Regulatory Information continued

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and community Right-to-Know Act of 1986) Sections 311 and 312

None

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Proposition 65

This product does not intentionally contain any chemicals known to the state of California to cause cancer, birth defects or other reproductive harm

Section 16 Other Information

Disclaimer

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