

Freeman 1140 Resin

Section 1 Identification

Product identifiers

Product name: Freeman 1140 Resin

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

Identified uses: Epoxy constituent

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

24 Hour emergency telephone number: CHEMTREC (800) 424-9300

Section 2 Hazards Identification

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

Eye Irritation, Category 2A

Skin Irritation, Category 2

Skin Sensitization, Category 1

Acute Toxicity, oral, Category 4

Specific Target Organ Toxicity (Single Exposure) (Respiratory Tract Irritation), Category 3

GHS Label elements, including precautionary statements



Signal word

Warning

Hazard statements

Causes serious eve irritation.

Causes skin irritation.

May cause an allergic skin reaction.

Harmful if swallowed.

May cause respiratory irritation.

Precautionary statements

Prevention

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

Use outdoors or in a well-ventilated area.

Avoid breathing dust, fume, gas, mist, vapors or spray.

Keep container tightly closed when not in use.

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

Wash hands and face thoroughly after handling.

Response

If on skin: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

Date of Preparation: May 2, 2022 Page 1 of 6



Freeman 1140 Resin

Section 2 Hazards Identification continued

Wash contaminated clothing before reuse.

If in eyes: Rinse continuously with water for at least 15 minutes while holding eye lid(s) open.

Remove contact lenses, if present and easy to do.

If eye irritation persists: Get medical advice/attention.

If swallowed: rinse mouth. Call poison center or doctor if person feels unwell.

If inhalation occurs: remove person to fresh air and get medical advice/attention if person is ill or concerned.

Storage

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

Disposal

Dispose of contents and container to an appropriate waste site in accordance with local and national regulations.

Hazards not otherwise classified (HNOC) or not covered by GHS

None known

Section 3 Composition/Information on Ingredients

Ingredient Name	CAS Number
Epoxy Resin	25068-38-6

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Section 4 First-Aid Measures

If inhaled

Move person into fresh air. If not breathing, give artificial respiration. If person feels unwell, get medical attention.

In case of skin contact

Immediately wash off with soap and plenty of water. Remove contaminated clothing and wash before reuse. Get medical attention if irritation/rash occurs.

In case of eye contact

Flush eyes with water for at least 15 minutes while holding eye lid(s) open.

Remove contact lenses, if present and easy to do. Get medical attention if irritation develops.

If swallowed

Do not induce vomiting. Rinse mouth. Call poison center or doctor if person feels unwell.

Section 5 Fire-Fighting Measures

Suitable extinguishing agents

Use water fog or fine spray, dry chemical or carbon dioxide. Foam or alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams or protein foams may function, but will be less effective. Water fog, applied gently, may be used as a blanket for fire extinguishment.

Unsuitable extinguishing agents

Do not use direct water stream, as it may spread the fire.

Date of Preparation: May 2, 2022 Page 2 of 6



Freeman 1140 Resin

Section 5 Fire-Fighting Measures continued

Specific hazards arising from the chemical

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

Hazardous thermal decomposition

Decomposition products may include the following materials: carbon dioxide, carbon monoxide, or halogenated compounds.

Special protective actions for firefighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is fire.

Special protective equipment for firefighters

Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. Cartridge respirators do not provide adequate protection for fire fighters or exotherm mitigation. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

Section 6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For personal protection see section 8.

Environmental precautions

Avoid release to the environment. Do not let product enter sewers, surface or ground water.

Methods and materials for containment and cleaning up

Absorb onto inert absorbent material and place in keep in suitable, closed containers for disposal. Remove residual with soap and hot water. Solvents are not recommended for clean-up unless the recommended exposure guidelines and safe handling practices for the specific solvent are followed.

Section 7 Handling and Storage

Precautions for safe handling

For industrial use only. Ensure good ventilation at the workplace. Empty containers retain product residue, so obey hazard warnings with empty containers. Avoid contact with oxidizing agents (e.g., chlorine, chromic acid, etc.).

Conditions for safe storage, including any incompatibilities

For safe storage, store at or below 72°F (22°C). Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials.

Section 8 Exposure Controls/Personal Protection

Components with workplace control parameters

None

Exposure controls

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.

Personal protective equipment

Eye/face protection

Wear safety glasses equipped with side shields, or chemical goggles if splashing is possible.

Skin protection

Hand Protection

Date of Preparation: May 2, 2022 Page 3 of 6



Freeman 1140 Resin

Section 8 Exposure Controls/Personal Protection continued

Wear gloves that are impermeable and resistant to the product.

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.

Safety Stations

Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

General Hygienic Practices

Avoid breathing vapor or mist. 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 Clear liquid

Odor Mild

Odor ThresholdNo data availablepHNo data availableMelting PointNo data available

VOC Content None Boiling point >450°F Flash Point (COC) >350°F

Evaporation rateNo data availableFlammability (solid, gas)No data availableUpper/lower flammabilityNo data available

Vapor Pressure at 72°F <1 mm Hg

Vapor density Relative Density at 72°FNo data available
9.20 lb./gal

Specific gravity 1.10 **Water Solubility** Slight

Coefficient: n-octanol/ waterNo data availableAuto-ignition temperatureNo data availableViscosityNo data available

Explosive PropertiesOxidizing Properties
% Volatile
None
0%

Section 10 Stability and Reactivity

Reactivity

No specific test data related to reactivity available for this product or its ingredients.

Chemical stability

Stable under recommended storage conditions.

Date of Preparation: May 2, 2022 Page 4 of 6



Freeman 1140 Resin

Section 10 Stability and Reactivity continued

Possibility of hazardous reactions

In normal storage hazardous reaction will not occur, reacts with amines.

Conditions to avoid

Avoid mixing resin (Part A) and curing agent (Part B) unless you plan to use immediately. Failure to observe this precaution may result in excessive heat build-up causing exotherm.

Incompatible materials

Strong oxidizing agents. Avoid contact with acids, bases, or unintended contact with amines.

Conditions to avoid

Avoid mixing resin (Part A) and curing agent (Part B) unless you plan to immediately use. Failure to observe this precaution may result in excessive heat build-up or exotherm.

Section 11 Toxicological Information

Relevant routes of exposure: Inhalation, Eyes, and Ingestion

Potential Health Effects/Symptoms

Inhalation: May cause respiratory tract irritation. Adverse symptoms may include:

respiratory tract irritation/coughing

Skin contact: This product may cause irritation to the skin. May cause an allergic skin reaction.

Adverse symptoms may include: irritation, redness, rash

Eye contact: This product may cause serious eye irritation. Adverse symptoms may include:

pain, irritation, watering, redness.

Ingestion: Irritating to mouth, throat, and stomach. No specific data available.

Delayed and immediate effects and chronic effects from short- and long-term exposure

Short term exposure, potential immediate effects: No data available **Short term exposure, potential delayed effects:** No data available **Long term exposure, potential immediate effects:** No data available **Long term exposure, potential delayed effects:** No data available

Respiratory or skin sensitization No data available **Germ cell mutagenicity** No data available

Carcinogenicity

IARC No component of this product present at levels greater than or equal to 0.1%

is identified as a carcinogen or potential carcinogen.

ACGIH No component of this product present at levels greater than or equal to 0.1%

is identified as a carcinogen or potential carcinogen.

NTP No component of this product present at levels greater than or equal to 0.1%

is identified as a known or anticipated carcinogen.

OSHA No component of this product present at levels greater than or equal to 0.1%

is identified as a carcinogen or potential carcinogen.

Reproductive toxicity No data available

Specific target organ toxicity

- single exposure No data available

Specific target organ toxicity

- repeated exposure No data available

Date of Preparation: May 2, 2022 Page 5 of 6



Freeman 1140 Resin

Section 12 Ecological Information

ToxicityNo data availablePersistence and degradabilityNo data availableBioaccumulative potentialNo data availableMobility in soilNo data availableResults of PBT & vPvB assessmentNo data available

Section 13 Disposal Considerations

The generation of waste should be avoided or minimized whenever possible. Contact a licensed contractor for detailed recommendations. Follow applicable Federal, State, and local regulations. Material, if discarded, is not expected to be a characteristic hazardous waste under RCRA.

Section 14 Transport Information

DOT Not RegulatedIMDG Not RegulatedIATA Not Regulated

Section 15 Regulatory Information

US Federal Regulations

RCRA Hazardous Waste Number (40 CFR 261.33): Not listed

RCRA Hazardous Waste Classification (40 CFR 261): Not classified

CERCLA Hazardous Substance (40 CFR 302.4): Listed/unlisted specific per RCRA Sec. 3001

SARA 311/312 Codes: See Section 2

SARA Toxic Chemical (40 CFR 372.65): Not listed

TSCA Inventory Status: All components are listed or exempt from listing on the Toxic

Substances Control Act Inventory.

US State Regulations

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

Date of Preparation: May 2, 2022 Page 6 of 6



Freeman 1140 Hardener

Section 1 Identification

Product identifiers

Product name: Freeman 1140 Hardener

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

Identified uses: Epoxy constituent

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

24 Hour emergency telephone number: CHEMTREC (800) 424-9300

Section 2 Hazards Identification

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

Eye Irritation, Category 2A

Skin Irritation, Category 2

Skin Sensitization, Category 1

Acute Toxicity, oral, Category 4

Specific Target Organ Toxicity (Single Exposure) (Respiratory Tract Irritation), Category 3

GHS Label elements, including precautionary statements



Signal word

Warning

Hazard statements

Causes serious eve irritation.

Causes skin irritation.

May cause an allergic skin reaction.

Harmful if swallowed.

May cause respiratory irritation.

Precautionary statements

Prevention

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

Use outdoors or in a well-ventilated area.

Avoid breathing dust, fume, gas, mist, vapors or spray.

Keep container tightly closed when not in use.

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

Wash hands and face thoroughly after handling.

Response

If on skin: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

Date of Preparation: May 2, 2022 Page 1 of 6



Freeman 1140 Hardener

Section 2 Hazards Identification continued

Wash contaminated clothing before reuse.

If in eyes: Rinse continuously with water for at least 15 minutes while holding eye lid(s) open.

Remove contact lenses, if present and easy to do.

If eye irritation persists: Get medical advice/attention.

If swallowed: rinse mouth. Call poison center or doctor if person feels unwell.

If inhalation occurs: remove person to fresh air and get medical advice/attention if person is ill or concerned.

Storage

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

Disposal

Dispose of contents and container to an appropriate waste site in accordance with local and national regulations.

Hazards not otherwise classified (HNOC) or not covered by GHS

None known

Section 3 Composition/Information on Ingredients

Ingredient Name	CAS Number
Safety Adducted Modified	68610-56-0
Polyamine Epoxy Curing Agent	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Section 4 First-Aid Measures

If inhaled

Move person into fresh air. If not breathing, give artificial respiration. If person feels unwell, get medical attention.

In case of skin contact

Immediately wash off with soap and plenty of water. Remove contaminated clothing and wash before reuse. Get medical attention if irritation/rash occurs.

In case of eve contact

Flush eves with water for at least 15 minutes while holding eve lid(s) open.

Remove contact lenses, if present and easy to do. Get medical attention if irritation develops.

If swallowed

Do not induce vomiting. Rinse mouth. Call poison center or doctor if person feels unwell.

Section 5 Fire-Fighting Measures

Suitable extinguishing agents

Use water fog or fine spray, dry chemical or carbon dioxide. Foam or alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams or protein foams may function, but will be less effective. Water fog, applied gently, may be used as a blanket for fire extinguishment.

Date of Preparation: May 2, 2022 Page 2 of 6



Freeman 1140 Hardener

Section 5 Fire-Fighting Measures continued

Unsuitable extinguishing agents

Do not use direct water stream, as it may spread the fire.

Specific hazards arising from the chemical

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

Hazardous thermal decomposition

Decomposition products may include the following materials: carbon dioxide, carbon monoxide, or halogenated compounds.

Special protective actions for firefighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is fire.

Special protective equipment for firefighters

Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. Cartridge respirators do not provide adequate protection for fire fighters or exotherm mitigation. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

Section 6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For personal protection see section 8.

Environmental precautions

Avoid release to the environment. Do not let product enter sewers, surface or ground water.

Methods and materials for containment and cleaning up

Absorb onto inert absorbent material and place in keep in suitable, closed containers for disposal. Remove residual with soap and hot water. Solvents are not recommended for clean-up unless the recommended exposure guidelines and safe handling practices for the specific solvent are followed.

Section 7 Handling and Storage

Precautions for safe handling

For industrial use only. Ensure good ventilation at the workplace. Empty containers retain product residue, so obey hazard warnings with empty containers. Avoid contact with oxidizing agents (e.g., chlorine, chromic acid, etc.).

Conditions for safe storage, including any incompatibilities

For safe storage, store at or below 72°F (22°C). Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials.

Section 8 Exposure Controls/Personal Protection

Components with workplace control parameters

None

Exposure controls

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.

Personal protective equipment

Eye/face protection

Wear safety glasses equipped with side shields, or chemical goggles if splashing is possible.

Date of Preparation: May 2, 2022 Page 3 of 6



Freeman 1140 Hardener

Section 8 Exposure Controls/Personal Protection continued

Skin protection

Hand Protection

Wear gloves that are impermeable and resistant to the product.

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.

Safety Stations

Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

General Hygienic Practices

Avoid breathing vapor or mist. 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 Mild

Odor ThresholdNo data availablepHNo data availableMelting PointNo data available

VOC ContentNoneBoiling point>500°FFlash Point (COC)265°F

Evaporation rateNo data availableFlammability (solid, gas)No data availableUpper/lower flammabilityNo data available

Vapor Pressure at 72°F <1 mm Hg

Vapor density Relative Density at 72°FNo data available
8.40 lb./gal

Specific gravity 1.01 **Water Solubility** Slight

Coefficient: n-octanol/ waterNo data availableAuto-ignition temperatureNo data availableViscosityNo data available

Explosive PropertiesNone **Oxidizing Properties**None **Volatile**0%

Section 10 Stability and Reactivity

Reactivity

No specific test data related to reactivity available for this product or its ingredients.

Date of Preparation: May 2, 2022 Page 4 of 6



Freeman 1140 Hardener

Section 10 Stability and Reactivity continued

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

In normal storage hazardous reaction will not occur, reacts with amines.

Conditions to avoid

Avoid mixing resin (Part A) and curing agent (Part B) unless you plan to use immediately. Failure to observe this precaution may result in excessive heat build-up causing exotherm.

Incompatible materials

Strong oxidizing agents. Avoid contact with acids, bases, or unintended contact with amines.

Conditions to avoid

Avoid mixing resin (Part A) and curing agent (Part B) unless you plan to immediately use. Failure to observe this precaution may result in excessive heat build-up or exotherm.

Section 11 Toxicological Information

Relevant routes of exposure: Inhalation, Eyes, and Ingestion

Potential Health Effects/Symptoms

Inhalation: May cause respiratory tract irritation. Adverse symptoms may include:

respiratory tract irritation/coughing

Skin contact: This product may cause irritation to the skin. May cause an allergic skin reaction.

Adverse symptoms may include: irritation, redness, rash

Eye contact: This product may cause serious eye irritation. Adverse symptoms may include:

pain, irritation, watering, redness.

Ingestion: Irritating to mouth, throat, and stomach. No specific data available.

Delayed and immediate effects and chronic effects from short- and long-term exposure

Short term exposure, potential immediate effects: No data available **Short term exposure, potential delayed effects:** No data available **Long term exposure, potential immediate effects:** No data available **Long term exposure, potential delayed effects:** No data available

Respiratory or skin sensitization No data available **Germ cell mutagenicity** No data available

Carcinogenicity

IARC No component of this product present at levels greater than or equal to 0.1%

is identified as a carcinogen or potential carcinogen.

ACGIH No component of this product present at levels greater than or equal to 0.1%

is identified as a carcinogen or potential carcinogen.

NTP No component of this product present at levels greater than or equal to 0.1%

is identified as a known or anticipated carcinogen.

OSHA No component of this product present at levels greater than or equal to 0.1%

is identified as a carcinogen or potential carcinogen.

Reproductive toxicity No data available

Specific target organ toxicity

- single exposure No data available

Specific target organ toxicity

- repeated exposure No data available

Date of Preparation: May 2, 2022 Page 5 of 6



Freeman 1140 Hardener

Section 12 Ecological Information

ToxicityNo data availablePersistence and degradabilityNo data availableBioaccumulative potentialNo data availableMobility in soilNo data availableResults of PBT & vPvB assessmentNo data available

Section 13 Disposal Considerations

The generation of waste should be avoided or minimized whenever possible. Contact a licensed contractor for detailed recommendations. Follow applicable Federal, State, and local regulations. Material, if discarded, is not expected to be a characteristic hazardous waste under RCRA.

Section 14 Transport Information

DOT Not Regulated**IMDG** Not Regulated**IATA** Not Regulated

Section 15 Regulatory Information

US Federal Regulations

RCRA Hazardous Waste Number (40 CFR 261.33): Not listed

RCRA Hazardous Waste Classification (40 CFR 261): Not classified

CERCLA Hazardous Substance (40 CFR 302.4): Listed/unlisted specific per RCRA Sec. 3001

SARA 311/312 Codes: See Section 2

SARA Toxic Chemical (40 CFR 372.65): Not listed

TSCA Inventory Status: All components are listed or exempt from listing on the Toxic

Substances Control Act Inventory.

US State Regulations

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

Date of Preparation: May 2, 2022 Page 6 of 6