

Safety Data Sheet



Freeman 706 Resin

Date of Preparation: December 1, 2015

Section 1 Chemical Product and Company Identification

1.1 Product identifiers

Product name: Freeman 706 Resin

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

Identified uses: N/A

1.3 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

1.4 Emergency telephone number

Emergency Phone (800) 424-9300

HMIS

| | |
|---|---|
| H | 2 |
| F | 1 |
| R | 0 |

PPE

Sec. 8

Section 2 Hazards Identification

2.1 Classification of the substance or mixture

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

Eye Irritation, Category 2A

Skin Irritation, Category 2

Skin Sensitization, Category 1

Hazardous to the Aquatic Environment, Category 1

Acute Toxicity, oral, Category 4

2.2 GHS Label elements, including precautionary statements



Signal word

Warning

Hazard statements

Causes eye irritation.

Causes skin irritation.

Causes skin sensitization.

Harmful if swallowed.

Harmful to aquatic life.

Precautionary statements

Prevention

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

Use only in a well ventilated area.

Keep container tightly closed when not in use.

Wear protective gloves/eye protection/face protection.

Freeman 706 Resin

Section 2 Hazards Identification cont.

Response

If on skin: Wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.
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.

Storage

Store 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.

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

None.

Section 3 Composition/Information on Ingredients

3.1 Substance

| Ingredient Name | CAS Number |
|------------------|------------|
| Epoxy Resin | 25068-38-6 |
| Diglycidyl Ether | 17557-23-2 |
| Talc | 14807-86-6 |

Section 4 First Aid Measures

4.1 Description of first aid measures

If inhaled

Move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water. Get medical attention if symptoms occur.

In case of eye contact

Flush eyes with water for at least 15 minutes. Get medical attention if irritation develops.

If swallowed

Do not induce vomiting unless directed to do so by medical personnel. Immediately call for medical help.

4.2 Most important symptoms and effects, both acute and delayed

Eye contact: Causes eye irritation.

Skin contact: Causes skin irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Inhalation: No specific data

Ingestion: No specific data.

Skin contact: Adverse symptoms may include the following:

Irritation

Redness

Eye contact: Adverse symptoms may include the following:

Pain or irritation

Watering

Redness

Freeman 706 Resin

Section 5 Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Nature of decomposition products not known.

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available.

Section 6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter sewers, surface or ground water.

6.3 Methods and materials for containment and cleaning up

For large spills absorb onto inert absorbent material and place in keep in suitable, closed containers for disposal.

Section 7 Handling and Storage

7.1 Precautions for safe handling

Ensure good ventilation at the workplace. Empty containers retain product residue, so obey hazard warnings with empty containers.

7.2 Conditions for safe storage, including any incompatibilities

Store at ambient temperatures in closed containers. Do not heat this material above the flash point.

Section 8 Exposure Controls/Personal Protection

8.1 Control parameters

Components with workplace control parameters

None

8.2 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. An eye wash station and safety shower should be located near the workstation.

8.3 Personal protective equipment

Eye/face protection

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

8.4 Skin protection

Hand Protection

With product at ambient temperatures, use disposable nitrile gloves. Contaminated gloves should be replaced.

Body Protection

Prevent skin contact when handling material.

Freeman 706 Resin

Section 8 Exposure Controls/Personal Protection cont

8.5 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.

8.6 Safety Stations

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

8.7 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

9.1 Information on basic physical and chemical properties

| | |
|--------------------------------------------------|---------------------|
| Appearance | Opaque white liquid |
| Odor | Mild |
| Odor Threshold | No data available |
| pH | No data available |
| Melting Point | No data available |
| VOC Content | None |
| Initial boiling point & boiling range | No data available |
| Flash Point(COC) | >149°C (>300°F) |
| Evaporation rate | No data available |
| Flammability (solid, gas) | No data available |
| Upper/lower flammability | No data available |
| Vapor Pressure | No data available |
| Vapor density | No data available |
| Relative density (g/cc) | 1.57±0.05 |
| Water Solubility | Slight |
| Coefficient: n-octanol/ water | No data available |
| Auto-ignition temperature | No data available |
| Viscosity | No data available |
| Explosive Properties | None |
| Oxidizing Properties | None |
| % Volatile | 0% |

Section 10 Stability and Reactivity

10.1 Reactivity

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

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

None.

Freeman 706 Resin

Section 10 Stability and Reactivity cont.

10.4 Conditions to avoid

Accidental mixing with curing agent.

10.5 Incompatible materials

Strong oxidizing materials, strong bases, strong acids, amines.

10.6 Hazardous decomposition products

Thermal oxidative decomposition can produce CO, and CO₂, and undetermined organic materials.

Section 11 Toxicological Information

11.1 Information on toxicological effects

| | |
|------------------------------------------|---------------------------------------------------------|
| Acute Oral toxicity | Low toxicity |
| Acute Inhalation toxicity | Irritation |
| Acute Dermal toxicity | Low toxicity |
| Skin corrosion/irritation | Mild skin irritant, may cause an allergic skin reaction |
| Serious eye damage/eye irritation | Mild eye irritant |
| 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 | Not expected to be a hazard |
| Specific target organ toxicity | |
| - single exposure | None expected |
| Specific target organ toxicity | |
| - repeated exposure | None expected |

Section 12 Ecological Information

| | |
|--------------------------------------------------|-------------------------|
| 12.1 Toxicity | Harmful to aquatic life |
| 12.2 Persistence and degradability | No data available |
| 12.3 Bioaccumulative potential | No data available |
| 12.4 Mobility in soil | No data available |
| 12.5 Results of PBT & vPvB assessment | No data available |

Section 13 Disposal Considerations

13.1 Disposal

Use safety containers for disposal. Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, State, and local regulations.

Freeman 706 Resin

Section 14 Transport Information

14.1 Shipping Name

DOT: Not Regulated

IMDG: Not Regulated

IATA: Not Regulated

Section 15 Regulatory Information

15.1 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: Immediate health, Delayed health

SARA Toxic Chemical (40 CFR 372.65): Not listed

TSCA Inventory Status: All ingredients listed on TSCA inventory requirements.

15.2 State Regulations

California Proposition 65: None listed

Section 16 Other Information

16.1 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.

Safety Data Sheet

Freeman 706-45 Hardener

Date of Preparation: December 1, 2015

Section 1 Chemical Product and Company Identification

1.1 Product identifiers

Product name: Freeman 706-45 Hardener

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

Identified uses: N/A

1.3 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

1.4 Emergency telephone number

Emergency Phone (800) 424-9300

| HMIS | |
|--------|---|
| H | 2 |
| F | 1 |
| R | 0 |
| PPE | |
| Sec. 8 | |

Section 2 Hazards Identification

2.1 Classification of the substance or mixture

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

Eye Irritation, Category 2A

Skin Irritation, Category 2

Skin Sensitization, Category 1

Hazardous to the Aquatic Environment, Category 1

Acute Toxicity, oral, Category 4

2.2 GHS Label elements, including precautionary statements



Signal word

Warning

Hazard statements

Causes eye irritation.

Causes skin irritation.

Causes skin sensitization.

Harmful if swallowed.

Harmful to aquatic life.

Precautionary statements

Prevention

Keep container tightly closed when not in use.

Wear protective gloves/eye protection/face protection.

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

Freeman 706-45 Hardener

Section 2 Hazards Identification cont.

Response

If on skin: Wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.
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.

Storage

Store 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.

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

None.

Section 3 Composition/Information on Ingredients

3.1 Substance

| Ingredient Name | CAS Number |
|-------------------------------------------------------|------------|
| Safety Adducted Modified Polyamine Epoxy curing agent | 68610-56-0 |
| Polyethylene Polyamine | 68131-73-7 |

Section 4 First Aid Measures

4.1 Description of first aid measures

If inhaled

Move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water. Get medical attention if symptoms occur.

In case of eye contact

Flush eyes with water for at least 15 minutes. Get medical attention immediately.

If swallowed

Do not induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person. Provided the patient is conscious, wash out mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

Eye contact: Causes eye irritation.

Skin contact: Causes skin irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Inhalation: No specific data.

Ingestion: No specific data.

Skin contact: Adverse symptoms may include the following:

Irritation

Redness

Eye contact: Adverse symptoms may include the following:

Pain or irritation

Watering

Redness

Freeman 706-45 Hardener

Section 5 Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

May liberate large quantities of dense, foul smelling smoke which may contain unidentified toxic gases.

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Hazardous combustion products: Oxides of carbon and nitrogen, and undetermined organics.

Section 6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter sewers/surface or ground water.

6.3 Methods and materials for containment and cleaning up

For large spills, absorb onto inert absorbent material and place in sealed container for disposal. Dispose of according to Federal, State, and local governmental regulations.

Section 7 Handling and Storage

7.1 Precautions for safe handling

Use normal precautions when handling flammable materials. Do not breathe fumes or vapor. Do not allow material to contact skin. Provide appropriate exhaust ventilation.

7.2 Conditions for safe storage, including any incompatibilities

Store at ambient temperatures in closed containers. Do not heat this material above the flash point. No chemical incompatibilities.

Section 8 Exposure Controls/Personal Protection

8.1 Control parameters

Components with workplace control parameters

None

8.2 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. An eye wash station and safety shower should be located near the workstation.

8.3 Personal protective equipment

Eye/face protection

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

Freeman 706-45 Hardener

Section 8 Exposure Controls/Personal Protection cont

8.4 Skin protection

Hand Protection

With product at ambient temperatures, use disposable nitrile gloves.

Contaminated gloves should be replaced.

Body Protection

Prevent skin contact when handling material.

8.5 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.

8.6 Safety Stations

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

8.7 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

9.1 Information on basic physical and chemical properties

| | |
|--------------------------------------------------|---------------------|
| Appearance | Light yellow liquid |
| Odor | Slight |
| Odor Threshold | No data available |
| pH | No data available |
| Melting Point | No data available |
| VOC Content | None |
| Initial boiling point & boiling range | No data available |
| Flash Point(COC) | 220°F |
| Evaporation rate | No data available |
| Flammability (solid, gas) | No data available |
| Upper/lower flammability | No data available |
| Vapor Pressure | <1 mm Hg |
| Vapor density | No data available |
| Relative density (g/cc) | 1.07±0.05 |
| Water Solubility | Slight |
| Coefficient: n-octanol/ water | No data available |
| Auto-ignition temperature | No data available |
| Viscosity | No data available |
| Explosive Properties | None |
| Oxidizing Properties | None |
| % Volatile | 0% |

Freeman 706-45 Hardener

Section 10 Stability and Reactivity

10.1 Reactivity

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

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

None.

10.4 Conditions to avoid

Accidental mixing with epoxy resins.

10.5 Incompatible materials

Amines, bases, and acids, strong oxidizing materials.

10.6 Hazardous decomposition products

Thermal oxidative decomposition can produce CO, CO₂, nitrogen oxides, and undetermined organic materials.

Section 11 Toxicological Information

11.1 Information on toxicological effects

| | |
|------------------------------------------|---------------------------------------------------------|
| Acute Oral toxicity | Low toxicity |
| Acute Inhalation toxicity | Irritation |
| Acute Dermal toxicity | Low toxicity |
| Skin corrosion/irritation | Mild skin irritant, may cause an allergic skin reaction |
| Serious eye damage/eye irritation | Mild eye irritant |
| 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.

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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 | Not expected to be a hazard |
| Specific target organ toxicity | |
| - single exposure | None expected |
| Specific target organ toxicity | |
| - repeated exposure | None expected |

Section 12 Ecological Information

| | |
|--------------------------------------------------|-------------------------|
| 12.1 Toxicity | Harmful to aquatic life |
| 12.2 Persistence and degradability | No data available |
| 12.3 Bioaccumulative potential | No data available |
| 12.4 Mobility in soil | No data available |
| 12.5 Results of PBT & vPvB assessment | No data available |

Freeman 706-45 Hardener

Section 13 Disposal Considerations

13.1 Disposal

Use safety containers for disposal. Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, State, and local regulations.

Section 14 Transport Information

14.1 Shipping Name

DOT: Not Regulated

IMDG: Not Regulated

IATA: Not Regulated

Section 15 Regulatory Information

15.1 US Federal Regulations

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TSCA Inventory Status: All ingredients listed on TSCA inventory requirements.

15.2 State Regulations

California Proposition 65: None listed

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