

Safety Data Sheet

Freeman Fast Set 517 Resin

Date of Preparation: December 1, 2015

Section 1 Chemical Product and Company Identification

1.1 Product identifiers

Product name: Freeman Fast Set 517 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

Acute Oral Toxicity, 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 to aquatic life.

Harmful if swallowed.

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 Fast Set 517 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

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 unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Provided the patient is conscious, wash out mouth with water. Get medical attention if symptoms appear.

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 Fast Set 517 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 drains.

6.3 Methods and materials for containment and cleaning up

Wipe up with absorbent material.

Keep in suitable, closed containers for disposal.

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.

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 Fast Set 517 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 pre-filter 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	Clear 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)	249°C (480°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)	1.17±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 Fast Set 517 Resin

Section 10 Stability and Reactivity cont.

10.4 Conditions to avoid

Accidental mixing with curing agent.

10.5 Incompatible materials

Amines, bases, and acids, strong oxidizing materials.

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 Fast Set 517 Resin

Section 14 Transport Information

DOT: Not Regulated
IATA: Not Regulated
IMDG: 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 Fast Set 517 Hardener

Date of Preparation: December 1, 2015

Section 1 Chemical Product and Company Identification

1.1 Product identifiers

Product name: Freeman Fast Set 517 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

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Section 2 Hazards Identification

2.1 Classification of the substance or mixture

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

Skin Irritation, Category 2

Skin Sensitization, Category 1

Eye Irritation, Category 2A

Acute Oral Toxicity, Category 4

2.2 GHS Label elements, including precautionary statements



Signal word Warning

Hazard statements

Harmful if swallowed.

May cause an allergic skin reaction.

Causes skin irritation.

Causes eye irritation.

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.

Use in a well ventilated area.

Avoid breathing vapor.

Freeman Fast Set 517 Hardener

Section 2 Hazards Identification cont.

Response

If inhaled, move victim to fresh air. Immediately call a poison center or physician.
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. Immediately contact a poison center or physician.
If swallowed, immediately call a poison center or physician. Rinse mouth. Do NOT induce vomiting.

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
Dimethylaminoethylphenol	90-72-2
Polyamine-polymercaptan Blend	Proprietary

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. Get medical attention

In case of skin contact

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

In case of eye contact

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

If swallowed

Do not induce vomiting unless directed to do so by medical personnel. 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

Skin contact: Harmful in contact with skin. May cause an allergic skin reaction.

Inhalation: May cause respiratory irritation.

Ingestion: Harmful if swallowed.

4.3 Indication of any immediate medical attention and special treatment needed

Inhalation: No specific data

Ingestion: No specific data

Skin contact: No specific data

Eye contact: No specific data

Freeman Fast Set 517 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

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 drains.

6.3 Methods and materials for containment and cleaning up

Contain and collect spillage with non-flammable absorbent materials, such as sand, vermiculite or diatomaceous earth. Keep in suitable, closed containers for disposal.

Section 7 Handling and Storage

7.1 Precautions for safe handling

Persons with a history of skin sensitization problems should not be employed in any process where this product is used.

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 Fast Set 517 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 pre-filter 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	Strong
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)	>200°C (>392°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)	1.1±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	None

Freeman Fast Set 517 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

Strong oxidizing agents, strong Lewis acids, or mineral acids

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	No data available
Acute Inhalation toxicity	Irritation
Acute Dermal toxicity	Irritation
Skin corrosion/irritation	May cause an allergic skin reaction
Serious eye damage/eye irritation	Irritation
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	None expected
Specific target organ toxicity	
- repeated exposure	No data available

Section 12 Ecological Information

12.1 Toxicity	No data available
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 Fast Set 517 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

DOT: Not Regulated
IATA: Not Regulated
IMDG: Not Regulated

Section 15 Regulatory Information

15.1 US Federal Regulations

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

15.3 Canadian Regulations

All components are listed or are exempt from being 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.