

Section 1 Identification

Product identifiers

Product name: Fast Set 505 Resin

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

Identified uses: Epoxy resin

Details of the supplier of the safety data sheet

Freeman Manufacturing and Supply Company

1101 Moore Road, Avon, OH 44011

Telephone (440) 934-1902

24 Hour emergency telephone number: CHEMTREC (800) 424-9300, Customer Number 8849

Section 2 Hazards Identification

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

Skin Corrosion/Irritation – Category 2

Eye Damage/ Irritation – Category 2A

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 eye irritation.

Causes skin irritation.

May cause an allergic skin reaction.

May cause respiratory irritation.

Harmful if swallowed.

Precautionary Statements

Prevention

Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Wear protective gloves/protective clothing. Wear eye and face protection. Avoid breathing dust, fume, gas, mist, vapors or spray. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace.

Response

IF SWALLOWED rinse mouth. Call poison center or doctor if you feel unwell. IF ON SKIN wash with plenty of soap and water. If irritation or rash occurs, get medical advice/attention. Take off contaminated clothing & wash before reuse. IF IN EYES rinse cautiously with water for several minutes while holding eye lid(s) open. Remove contact lenses, if present and easy to do and continue rinsing. If eye irritation persists get medical advice/attention. IF INHALATION occurs, remove person to fresh air and get medical advice/attention if ill or concerned.

Section 2 Hazards Identification continued

Storage

Store in a well-ventilated place. Keep cool.

Disposal

Dispose of contents and/or container in accordance with Federal, State/Provincial and local governmental regulations.

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

None known

Section 3 Composition/Information on Ingredients

Mixture

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

Inhalation

Move person to fresh air; if you feel unwell, get medical attention.

Skin contact

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

Eye contact

Flush eyes thoroughly with water for several minutes. Remove contact lenses if easy to do and continue rinsing. If signs/symptoms persist, get medical attention.

If Swallowed

Rinse mouth. Call poison center or doctor if you feel unwell.

Most important symptoms and effects, both acute and delayed

See Section 11.1 Information on toxicological effects.

Indication of any immediate medical attention and special treatment required

Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

Section 5 Fire-Fighting Measures

Suitable extinguishing agents

Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. 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, may spread fire.

Specific hazards arising from the chemical

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

Section 5 Fire-Fighting Measures continued

Hazardous thermal decomposition products

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

Special protective actions for fire-fighters

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

Special protective equipment for fire-fighters

Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air.

For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

Methods and materials for containment and clean-up

Move containers from spill area. Absorb with an inert dry material until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Place in an appropriate waste disposal container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/ international regulations. For larger spills, dispose of via a licensed waste disposal contractor. 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/occupational use only. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. 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. Store locked up.

Section 8 Exposure Controls/Personal Protection

Components with workplace control parameters

None

Section 8 Exposure Controls/Personal Protection continued

Exposure controls

Appropriate engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

Personal protective equipment

Eye/face protection

Use chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required.

Skin protection

Hand protection

Use Protective gloves. The glove material has to be impermeable and resistant to the product. Consult glove manufacturer.

Body protection

Prevent skin contact when handling material.

Respiratory protection

Wear appropriate respirator when ventilation is inadequate.

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. Wash thoroughly after handling materials. Avoid contamination of food, beverages, or smoking. Clean contaminated clothing thoroughly before reuse.

Section 9 Physical and Chemical Properties

Appearance	Translucent blue liquid
Odor	Mild
Odor threshold	No data available
pH	No data available
Freezing point	No data available
Boiling point	>500°F
Flash point	>480°F
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability	No data available
Vapor pressure at 72°F	0.03 mm Hg
Vapor density	No data available
Product density at 72°F	9.76 lb/gal
Specific gravity	1.17
Water Solubility	Slight
Coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Percent solids	100%
Percent volatiles	0%

Section 10 Stability and Reactivity

Chemical Stability

Stable at normal conditions.

Hazardous reactions

Under normal conditions of storage and use, hazardous reactions should not occur.

Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should be produced.

Dangerous reactions

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

Incompatible materials

Keep away from strong oxidizing agents. Avoid contact with Acids, Bases or unintended contact with amines.

Reactivity

Not available.

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.

Section 11 Toxicological Information

Relevant routes of exposure

Skin, Inhalation, Eyes and Ingestion

Potential Health Effects/Symptoms

Inhalation: May cause respiratory tract irritation. Adverse symptoms may include the following: respiratory tract irritation/coughing.

Skin contact: This product may cause irritation to the skin. May cause an allergic skin reaction. Adverse symptoms may include the following: irritation, redness or rash

Eye contact: This product may cause serious eye irritation. Adverse symptoms may include the following: pain, irritation, watering or redness.

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

Respiratory or skin sensitization No data available

Germ cell mutagenicity No specific data

Carcinogenicity No specific data

Reproductive Toxicity No data available

STOT - single exposure (Specific target organ toxicity) No data available

STOT - repeated exposure (Specific target organ toxicity) No data available

Aspiration Hazard No data available

Section 12 Ecological Information

Toxicity 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

Section 13 Disposal Considerations

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers retain some product residue. Avoid spilled material and/or runoff with contact in soil, waterways, drains and sewers.

Section 14 Transport Information

DOT: Not regulated
IATA: Not regulated
IMDG: Not regulated

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

Section 15 Regulatory Information**OSHA Hazard Communication Standard**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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

Acute Health Hazard

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.

Pennsylvania Worker and Community Right-To-Know Act:

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)

This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

Under States TSCA Inventory (TSCA)

All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

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.

Section 1 Identification

Product identifiers

Product name: Fast Set 505 Hardener

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

Identified uses: Epoxy hardener

Details of the supplier of the safety data sheet

Freeman Manufacturing and Supply Company

1101 Moore Road, Avon, OH 44011

Telephone (440) 934-1902

24 Hour emergency telephone number: CHEMTREC (800) 424-9300, Customer Number 8849

Section 2 Hazards Identification

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

Skin Corrosion/Irritation – Category 2

Eye Damage/ Irritation – Category 2A

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 eye irritation.

Causes skin irritation.

May cause an allergic skin reaction.

May cause respiratory irritation.

Harmful if swallowed.

Precautionary Statements

Prevention

Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Wear protective gloves/protective clothing. Wear eye and face protection. Avoid breathing dust, fume, gas, mist, vapors or spray. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace.

Response

IF SWALLOWED rinse mouth. Call poison center or doctor if you feel unwell. IF ON SKIN wash with plenty of soap and water. If irritation or rash occurs, get medical advice/attention. Take off contaminated clothing & wash before reuse. IF IN EYES rinse cautiously with water for several minutes while holding eye lid(s) open. Remove contact lenses, if present and easy to do and continue rinsing. If eye irritation persists get medical advice/attention. IF INHALATION occurs, remove person to fresh air and get medical advice/attention if ill or concerned.

Section 2 Hazards Identification continued

Storage

Store in a well-ventilated place. Keep cool.

Disposal

Dispose of contents and/or container in accordance with Federal, State/Provincial and local governmental regulations.

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

None known

Section 3 Composition/Information on Ingredients

Mixture

Ingredient Name	CAS Number
Polyamine Polymercaptan Blend	Trade Secret
2,3,6-tris (dimethylaminomethyl)-phenol	90-72-2

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

Inhalation

Move person to fresh air; if you feel unwell, get medical attention.

Skin contact

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

Eye contact

Flush eyes thoroughly with water for several minutes. Remove contact lenses if easy to do and continue rinsing. If signs/symptoms persist, get medical attention.

If Swallowed

Rinse mouth. Call poison center or doctor if you feel unwell.

Most important symptoms and effects, both acute and delayed

See Section 11.1 Information on toxicological effects.

Indication of any immediate medical attention and special treatment required

Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

Section 5 Fire-Fighting Measures

Suitable extinguishing agents

Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. 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, may spread fire.

Specific hazards arising from the chemical

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

Section 5 Fire-Fighting Measures continued

Hazardous thermal decomposition products

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

Special protective actions for fire-fighters

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

Special protective equipment for fire-fighters

Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air.

For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

Methods and materials for containment and clean-up

Move containers from spill area. Absorb with an inert dry material until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Place in an appropriate waste disposal container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/ international regulations. For larger spills, dispose of via a licensed waste disposal contractor. 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/occupational use only. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. 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. Store locked up.

Section 8 Exposure Controls/Personal Protection

Components with workplace control parameters

None

Section 8 Exposure Controls/Personal Protection continued

Exposure controls

Appropriate engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

Personal protective equipment

Eye/face protection

Use chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required.

Skin protection

Hand protection

Use Protective gloves. The glove material has to be impermeable and resistant to the product. Consult glove manufacturer.

Body protection

Prevent skin contact when handling material.

Respiratory protection

Wear appropriate respirator when ventilation is inadequate.

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. Wash thoroughly after handling materials. Avoid contamination of food, beverages, or smoking. Clean contaminated clothing thoroughly before reuse.

Section 9 Physical and Chemical Properties

Appearance	Translucent white liquid
Odor	Mild
Odor threshold	No data available
pH	No data available
Freezing point	No data available
Boiling point	No data available
Flash point	>300°F
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability	No data available
Vapor pressure at 72°F	0.03 mm Hg
Vapor density	No data available
Product density at 72°F	8.60 lb/gal
Specific gravity	1.03
Water Solubility	Slight
Coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Percent solids	100%
Percent volatiles	0%

Section 10 Stability and Reactivity

Chemical Stability

Stable at normal conditions.

Hazardous reactions

Under normal conditions of storage and use, hazardous reactions should not occur.

Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should be produced.

Dangerous reactions

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

Incompatible materials

Keep away from strong oxidizing agents. Avoid contact with Acids, Bases or unintended contact with amines.

Reactivity

Not available.

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.

Section 11 Toxicological Information

Relevant routes of exposure

Skin, Inhalation, Eyes and Ingestion

Potential Health Effects/Symptoms

Inhalation: May cause respiratory tract irritation. Adverse symptoms may include the following: respiratory tract irritation/coughing.

Skin contact: This product may cause irritation to the skin. May cause an allergic skin reaction. Adverse symptoms may include the following: irritation, redness or rash

Eye contact: This product may cause serious eye irritation. Adverse symptoms may include the following: pain, irritation, watering or redness.

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

Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No specific data
Carcinogenicity	No specific data
Reproductive Toxicity	No data available
STOT - single exposure	(Specific target organ toxicity) No data available
STOT - repeated exposure	(Specific target organ toxicity) No data available
Aspiration Hazard	No data available

Section 12 Ecological Information

Toxicity	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

Section 13 Disposal Considerations

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers retain some product residue. Avoid spilled material and/or runoff with contact in soil, waterways, drains and sewers.

Section 14 Transport Information

DOT: Not regulated
IATA: Not regulated
IMDG: Not regulated

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

Section 15 Regulatory Information

OSHA Hazard Communication Standard

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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

Acute Health Hazard

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.

Pennsylvania Worker and Community Right-To-Know Act:

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)

This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

Under States TSCA Inventory (TSCA)

All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

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.