

Safety Data Sheet

Freeman 4045 Side A (Base)

Section 1 Identification

Product Identifiers

Product name: Freeman 4045 Side A (Base)

Relevant Identified Uses of the Substance or Mixture

Polymer Matrix for Fiber-Reinforced Plastic (FRP)

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)

Not hazardous per 29 CFR 1910.1200.

GHS Label Elements, Including Precautionary Statements

No GHS label required.

Signal word None

Supplemental Information

May cause mild eye and skin irritation. Avoid contact with eyes and mucous membranes.

Section 3 Composition/Information on Ingredients

Ingredient Name	CAS Number	Concentration (%)
Ingredients are not classified as health and/or environmental hazards, and/or are present below cut-off/concentration limits.		

Section 4 First-Aid Measures

Description of First Aid Measures
Eye Contact

Rinse thoroughly with water, holding the eyelids open to be sure the material is washed out. Get medical attention if irritation develops and persists.

Skin Contact

Wash contact area thoroughly with soap and water. Get medical attention if irritation develops and persists.

Inhalation

If breathing is difficult, remove person to fresh air. If experiencing difficulty breathing, call a doctor.

Ingestion

If swallowed, rinse mouth. Drink water. Induce vomiting only with medical supervision.

Most Important Symptoms/Effects

Mild eye irritation.

Indication of Immediate Medical Attention/Special Treatment

Not expected to be required.

Safety Data Sheet

Freeman 4045 Side A (Base)

Section 5 Fire-Fighting Measures

Extinguishing Media

Carbon dioxide, dry chemical, foams, or water spray.

Special Hazards

Not classified as flammable or combustible. May generate formaldehyde in fire conditions.

Special Protective Equipment & Precautions for Fire-Fighters

Wear SCBA and full-body protective suit. Cool hot containers with water.

Section 6 Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures

Remove ignition sources. Clear non-emergency personnel from the area. Caution: spill area may be slippery. Avoid eye and skin contact.

Methods and Materials for Containment and Cleanup

Contain spill and prevent/minimize release to the environment. Collect and place material in containers for disposal.

Section 7 Handling and Storage

Safe Handling

Avoid contact with eyes, skin (especially mucous membranes), and clothing. Use in a ventilated area. Wash hands after handling.

Safe Storage

Store indoors at temperatures between 60°F and 95°F. Store in original containers. Avoid getting moisture into containers. Keep containers tightly closed.

Section 8 Exposure Controls/Personal Protection

Occupational Exposure Limits

No OSHA or ACGIH exposure limits apply.

Ventilation

Provide general exhaust.

Respiratory Protection

None necessary.

Skin Protection

Wear rubber (e.g., nitrile) gloves.

Eye Protection

Wear chemical safety glasses or goggles.

Other Protective Measures

Eyewash fountains and safety showers are recommended in the work area.

Section 9 Physical and Chemical Properties

Appearance	Liquid
Odor	Mild
Odor Threshold	No data available
pH	No data available
Melting/Freezing Point	No data available
Boiling Point	No data available

Safety Data Sheet

Freeman 4045 Side A (Base)

Section 9 Physical and Chemical Properties continued

Flash Point	>150°C (302°F) (estimated)
Evaporation Rate	No data available
Flammability Limits	No data available
Vapor Pressure	No data available
Vapor Density	No data available
Relative Density	1.0-1.3 @ 25°C
Solubility	Insoluble in water
Coefficient: n-Octanol/Water	No data available
Auto-Ignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available

Section 10 Stability and Reactivity

Reactivity

Not normally reactive.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None known.

Conditions to Avoid

Excessive heat.

Incompatible Materials

Possibly strong oxidizers.

Hazardous Decomposition Products

Thermal decomposition will generate formaldehyde and oxides of carbon and silicon.

Section 11 Toxicological Information

Eye Contact

May cause mild irritation.

Skin Contact

May cause mild irritation especially to mucous membranes.

Inhalation

Vapors or mists may cause mild respiratory irritation.

Ingestion

No data available.

Chronic Health Effects

No data available.

Acute Toxicity Values

No data available.

Germ Cell Mutagenicity

Components are not known mutagens.

Carcinogenicity

Relevant components are not listed as known or suspected carcinogens by NTP, IARC, or OSHA.

Reproductive Toxicity

Relevant components are not known or suspected reproductive toxins.

Specific Target Organ Toxicity

Relevant components are not known or suspected toxins to specific target organs.

Safety Data Sheet

Freeman 4045 Side A (Base)

Section 12 Ecological Information

Toxicity

Not expected to be dangerous to aquatic organisms.

Persistence and Degradability

No data available.

Bioaccumulative Potential

No data available.

Mobility in Soil

No data available.

Section 13 Disposal Considerations

Disposal

Dispose according to local, regional, and national regulations.

For US: Upon disposal, these products are not RCRA hazardous waste (per 40 CFR 261).

Section 14 Transport Information

Not regulated for transport in any mode.

Emergency Shipping Information: Call CHEMTREC, 800-424-9300.

Section 15 Regulatory Information

U.S. Federal Regulations

CERCLA 103 Reportable Quantity: Not subject to reporting under CERCLA. Some states have more stringent reporting requirements. Report all spills in accordance with local, state, and federal regulations.

SARA TITLE III

Section 311/312: Not applicable.

Section 313 Toxic Chemicals: Contains no chemicals subject to SARA Title III Section 313 Reporting requirements.

Section 302 Extremely Hazardous Substances (TPQ): None.

EPA Toxic Substances Control Act (TSCA): All components are listed on TSCA.

State Regulations

California Proposition 65: These products do not contain substances known to the State of California to cause cancer and/or reproductive harm.

Safety Data Sheet

Freeman 4045 Side A (Base)

Section 16 Other Information

Training Advice

All personnel using/handling these products should be trained in proper chemical handling and the need for, and use of, engineering controls and protective equipment.

Recommended Uses and Restrictions

Intended for industrial or professional use only.

Disclaimer

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Section 1 Identification

Product Identifiers

Product name: Freeman 4045 Side B (Catalyst)

Relevant Identified Uses of the Substance or Mixture

Polymer Matrix for Fiber-Reinforced Plastic (FRP)

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)

Skin Irritation, Category 2

Eye Irritation, Category 2A

GHS Label Elements, Including Precautionary Statements



Signal word

Warning

Contains hydride-terminated polydimethylsiloxane

Hazard Statements

Causes skin irritation.

Causes serous eye irritation.

Precautionary Statements

Prevention

Wash hands and contacted skin thoroughly after handling.

Wear protective gloves and eye protection.

Response

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs, get medical advice. Take off contaminated clothing and wash before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.

Section 3 Composition/Information on Ingredients

Ingredient Name	CAS Number	Concentration (%)
Hydride-terminated polydimethylsiloxane	70900-21-9	10-35
Other ingredients are not classified as health and/or environmental hazards, and/or are present below cut-off/concentration limits.		

Safety Data Sheet

Freeman 4045 Side B (Catalyst)

Section 4 First-Aid Measures

Description of First Aid Measures

Eye Contact

Rinse thoroughly with water, holding the eyelids open to be sure the material is washed out. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Skin Contact

Wash contact area thoroughly with soap and water. Get medical attention if irritation develops and persists.

Inhalation

If breathing is difficult, remove person to fresh air. If experiencing difficulty breathing, get medical attention.

Ingestion

If swallowed, rinse mouth. Drink water. Induce vomiting only with medical supervision.

Most Important Symptoms/Effects

Eye Irritation.

Indication of Immediate Medical Attention/Special Treatment

Not expected to be required.

Section 5 Fire-Fighting Measures

Extinguishing Media

Carbon dioxide, dry chemical, foams, or water spray.

Special Hazards

Not classified as flammable or combustible. May generate formaldehyde in fire conditions.

Special Protective Equipment & Precautions for Fire-Fighters

Wear SCBA and full-body protective suit. Cool hot containers with water.

Section 6 Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures

Remove ignition sources. Clear non-emergency personnel from the area. Caution: spill area may be slippery. Avoid eye and skin contact.

Methods and Materials for Containment and Cleanup

Contain spill and prevent/minimize release to the environment. Collect and place material in containers for disposal.

Section 7 Handling and Storage

Safe Handling

Avoid contact with eyes, skin (especially mucous membranes), and clothing. Use in a ventilated area. Wash hands after handling.

Safe Storage

Store indoors at temperatures between 60°F and 95°F. Store in original containers. Avoid getting moisture into containers. Keep containers tightly closed.

Freeman 4045 Side B (Catalyst)
Section 8 Exposure Controls/Personal Protection
Occupational Exposure Limits

No OSHA or ACGIH exposure limits apply.

Appropriate Engineering Controls

Provide general exhaust.

Respiratory Protection

None necessary.

Skin Protection

Wear rubber (e.g. nitrile) gloves.

Eye Protection

Wear chemical safety glasses or goggles.

Other Protective Measures

Eyewash fountains and safety showers are recommended in the work area.

Section 9 Physical and Chemical Properties

Appearance	Liquid
Odor	Mild
Odor Threshold	No data available
pH	No data available
Melting/Freezing Point	No data available
Boiling Point	No data available
Flash Point	>150°C (302°F) (estimated)
Evaporation Rate	No data available
Flammability Limits	No data available
Vapor Pressure	No data available
Vapor Density	No data available
Relative Density	1.0 @ 25°C
Solubility	Insoluble in water
Coefficient: n-Octanol/Water	No data available
Auto-Ignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available

Section 10 Stability and Reactivity
Reactivity

Not normally reactive.

Chemical Stability

This product is stable under normal storage conditions.

Possibility of Hazardous Reactions

None known.

Conditions to Avoid

Excessive heat.

Incompatible Materials

Possibly strong oxidizers.

Hazardous Decomposition Products

Thermal decomposition will generate formaldehyde and oxides of carbon and silicon.

Section 11 Toxicological Information

Eye Contact

Causes serious eye irritation.

Skin Contact

Causes skin irritation especially to mucous membranes.

Inhalation

Vapors or mists may cause mild respiratory irritation.

Ingestion

No data available.

Chronic Health Effects

None known.

Acute Toxicity Values

No data available.

Germ Cell Mutagenicity

Components are not known mutagens.

Carcinogenicity

Relevant components are not listed as known or suspected carcinogens by NTP, IARC, or OSHA.

Reproductive Toxicity

Relevant components are not known or suspected reproductive toxins.

Specific Target Organ Toxicity

Relevant components are not known or suspected toxins to specific target organs.

Section 12 Ecological Information

Toxicity

Not expected to be dangerous to aquatic organisms.

Persistence and Degradability

No data available.

Bioaccumulative Potential

No data available.

Mobility in Soil

No data available.

Section 13 Disposal Considerations

Disposal

Dispose according to local, regional, and national regulations.

For US: Upon disposal, these products are not RCRA hazardous waste (per 40 CFR 261).

Section 14 Transport Information

Not regulated for transport in any mode.

Emergency Shipping Information: Call CHEMTREC, 800-424-9300.

Freeman 4045 Side B (Catalyst)**Section 15 Regulatory Information****U.S. Federal Regulations**

CERCLA 103 Reportable Quantity: Not subject to reporting under CERCLA. Some states have more stringent reporting requirements. Report all spills in accordance with local, state, and federal regulations.

SARA TITLE III

Section 311/312: Acute.

Section 313 Toxic Chemicals: Contains no chemicals subject to SARA Title III Section 313 Reporting requirements.

Section 302 Extremely Hazardous Substances (TPQ): None.

EPA Toxic Substances Control Act (TSCA): All components are listed on TSCA.

State Regulations

California Proposition 65: These products do not contain substances known to the State of California to cause cancer and/or reproductive harm.

Section 16 Other Information**Training Advice**

All personnel using/handling these products should be trained in proper chemical handling and the need for, and use of, engineering controls and protective equipment.

Recommended Uses and Restrictions

Intended for industrial or professional use only.

Disclaimer

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