

Section 1 Identification

Product identifiers

Product name: Freeman 1280 Epoxy Tooling Paste Part A (Resin)

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

Identified uses: Epoxy constituent – For industrial use only

Details of the supplier of the Safety Data Sheet

Freeman Manufacturing & Supply Company
1101 Moore Road, Avon, OH 44011
Telephone (440) 934-1902
www.freemansupply.com

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 eye 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.
Contaminated work clothing must not be allowed out of the workplace.

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 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.

Section 2 Hazards Identification continued

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.

Section 3 Composition/Information on Ingredients

Ingredient Name	CAS Number	Concentration (%)
Epoxy Resin	25068-38-6	≤ 50
Talc	14807-96-6	≤ 40
Aluminum	7429-90-5	≤ 10

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

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.

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: 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 with inert dry material and place 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. Avoid breathing dust/fume/vapor. Ensure good ventilation at the workplace. Do not eat, drink, or smoke when using this product. Wash thoroughly after handling. Empty containers retain product residue, so obey hazard warnings with empty containers.

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: oxidizing agents (e.g., chlorine, chromic acid, etc.).

Section 8 Exposure Controls/Personal Protection

Components with workplace control parameters

None

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.

Hand/body protection

Wear gloves that are impermeable and resistant to the product. Contaminated gloves should be replaced. 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	Gray paste
Odor	Slight
Odor Threshold	No data available
pH	No data available
Melting Point	No data available
VOC Content	None
Boiling point	No data available
Flash Point (COC)	>500°F
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability	No data available
Vapor Pressure at 72°F	No data available
Vapor density	No data available
Relative Density at 72°F	11.98 lb./gal
Specific gravity	1.44
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

Reactivity

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

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

Under normal conditions of storage and use, 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.

Section 11 Toxicological Information

Potential health effects/symptoms for relevant routes of exposure

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.

Section 11 Toxicological Information continued

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

Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	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
- repeated exposure	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 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, IMDG, IATA	Not Regulated
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Section 15 Regulatory Information

Superfund Amendments and Reauthorization Act (SARA)

Emergency Planning and Right-to-Know Act (EPCRA) Section 311/312 Codes: See Section 2

Section 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels

TSCA Inventory Status

All components are listed or exempt from listing on the Toxic Substances Control Act Inventory.

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

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.

Issue Date: June 16, 2022

Revision Date: June 9, 2023

Section 1 Identification

Product identifiers

Product name: Freeman 1280 Epoxy Tooling Paste Part B (Hardener)

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

Identified uses: Epoxy constituent – For industrial use only

Details of the supplier of the Safety Data Sheet

Freeman Manufacturing & Supply Company

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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 eye 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.

Contaminated work clothing must not be allowed out of the workplace.

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 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.

Section 2 Hazards Identification continued

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.

Section 3 Composition/Information on Ingredients

Ingredient Name	CAS Number	Concentration (%)
Polyamide	68410-23-1	≤ 50
Talc	14807-96-6	≤ 40
Aluminum	7429-90-5	1 - 5
Amorphous Silica	7631-86-9	< 5

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.

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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.

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: 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.

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Environmental precautions

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Methods and materials for containment and cleaning up

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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: oxidizing agents (e.g., chlorine, chromic acid, etc.).

Section 8 Exposure Controls/Personal Protection

Components with workplace control parameters

None

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.

Hand/body protection

Wear gloves that are impermeable and resistant to the product. Contaminated gloves should be replaced. 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	Black paste
Odor	Slight, amine
Odor Threshold	No data available
pH	No data available
Melting Point	No data available
VOC Content	None
Boiling point	No data available
Flash Point (COC)	400°F
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability	No data available
Vapor Pressure at 72°F	No data available
Vapor density	No data available
Relative Density at 72°F	10.78 lb./gal
Specific gravity	1.29
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

Reactivity

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

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reaction will not occur.

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, or bases.

Section 11 Toxicological Information

Potential health effects/symptoms for relevant routes of exposure

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

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

Section 11 Toxicological Information continued

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

Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	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
- repeated exposure	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

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DOT, IMDG, IATA	Not Regulated
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