

Freeman 1015 Medium-Density Epoxy Paste Resin

Section 1 Identification

Product identifiers

Product names: Freeman 1015 Medium-Density Epoxy Paste Resin

Relevant identified uses

Epoxy Paste Resin

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

HMIS	
H	2
F	1
R	0
PPE	
Sec. 8	

24 Hour Emergency Phone Number: (800) 424-9300

Section 2 Hazards Identification

Classification of the substance or mixture

Skin Irritation, Category 2
 Eye Irritation, Category 2A
 Skin Sensitization, Category 1
 Acute Toxicity Oral, Category 4

GHS Label elements, including precautionary statements



Signal word

Warning

Hazard statements

Causes skin irritation.
 Causes eye irritation.
 May cause skin sensitization.
 Harmful if swallowed.

Precautionary statements

Do not eat, drink or smoke when using this product.
 Use only in well ventilated area.
 Wear eye protection and protective gloves.
 IF ON SKIN: Wash with plenty of soap and water.
 Dispose of contents/container according to all applicable regulations.

Section 3 Composition/Information on Ingredients

Ingredient Name	CAS Number
Epoxy resin	25068-38-6
Sodium borosilicate	50815-87-8
Talc	14807-96-6

Freeman 1015 Medium-Density Epoxy Paste Resin

Section 4 First Aid Measures

If inhaled	Supply fresh air and seek medical attention.
In case of skin contact	Immediately wash with water and soap and rinse thoroughly. Remove contaminated clothing. Launder before re-use.
In case of eye contact	Rinse opened eye for several minutes under running water. Seek medical attention if irritation develops.
If swallowed	Do not induce vomiting. Seek medical attention immediately.

Section 5 Fire-Fighting Measures

Suitable Extinguishing Media

Use water spray (fog), foam, dry chemical or carbon dioxide.

Special Fire-Fighting Procedures

Persons exposed to products of combustion should wear self-contained breathing apparatus and full protective equipment. 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.

Unusual Fire and Explosion Hazards

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

Hazardous Decomposition Products

Carbon dioxide, carbon monoxide, oxides of nitrogen, and undetermined organics.

Section 6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions

Do not allow product to enter sewers/surface or ground water. Wear appropriate protective equipment and clothing during clean-up. Prevent further leakage or spillage if safe to do so.

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

Precautions for safe handling

Ensure good ventilation. Protect from heat. Empty containers may retain product residue. Obey hazard warnings and handle empty containers as if they were full.

Conditions for safe storage

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.

Freeman 1015 Medium-Density Epoxy Paste Resin

Section 8 Exposure Controls/Personal Protection

Exposure controls

Appropriate engineering controls

Provide adequate local exhaust ventilation or other engineering controls to minimize airborne concentrations of mists and/or vapors. An eye wash station and safety shower should be located near the workstation.

Personal protective equipment

Eye/face protection

Wear safety glasses equipped with side shields, or chemical goggles if splashing is possible.

Skin protection

Hand Protection

Wear protective gloves. The glove material must be impermeable and resistant to the product.

Body Protection

Wear protective clothing and boots.

Respiratory Protection

The need for respiratory protection is not anticipated under normal use conditions and with adequate ventilation. If elevated airborne concentrations exist, or irritation is experienced, a NIOSH-approved respirator should be used.

General Hygienic Practices

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	White foam
Odor	Mild
Odor Threshold	No data available
pH	No data available
Melting Point	No data available
Initial boiling point	Decomposes
Flash Point	>420°F (216°C)
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
Density at 72°F	6.09 lb/gal
Specific gravity	0.73
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
Percent solid by weight	100%
% Volatile	0

Freeman 1015 Medium-Density Epoxy Paste Resin

Section 10 Stability and Reactivity

Stability

Stable at normal conditions.

Hazardous reactions

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

Reacts with amines.

Hazardous decomposition products

Carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons and undetermined organics

Conditions to avoid

Avoid mixing resin and curing agent 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. Strong Lewis or mineral acids

Section 11 Toxicological Information

Relevant routes of exposure and Potential Health Effects/Symptoms:

Inhalation	May cause respiratory tract irritation.
Skin contact	May cause irritation to the skin. May cause an allergic skin reaction.
Eye contact	May cause irritation to the eyes.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Section 12 Ecological Information

Ecotoxicity	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

Dispose of material according to Local, State, and Federal Regulations.
 Material, if discarded, is not expected to be a characteristic hazardous waste under RCRA.

Section 14 Transport Information

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

Freeman 1015 Medium-Density Epoxy Paste Resin

Section 15 Regulatory Information

Toxic Substance Control Act

All components are listed or are exempt from listing on the TSCA 8 (b) Inventory.
TSCA 12 (b) Export Notification: No reportable components

US Federal Regulations

CERCLA Hazardous Substance (40 CFR 302.4): No reportable components.
SARA Title III Sec. 311/312 Codes: Immediate Health, Delayed Health
SARA Title III Sec. 313 Toxic Chemicals (40 CFR 372.65): No reportable components.

State Regulations

California Prop 65: This product is not known to contain any components for which the State of California has found to cause cancer, birth defects or other reproductive harm.

Canadian Regulations

CEPA DSL: All components are listed or are exempt from listing on the Canadian Domestic Substances List.

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.

Freeman 1015 Medium-Density Epoxy Hardener

Section 1 Identification

Product identifiers

Product names: Freeman 1015 Medium-Density Epoxy Hardener

Relevant identified uses

Epoxy Paste Catalyst Mixture

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

HMIS	
H	2
F	1
R	0
PPE	
Sec. 8	

24 Hour Emergency Phone Number: (800) 424-9300

Section 2 Hazards Identification

Classification of the substance or mixture

Skin Irritation, Category 2
 Eye Irritation, Category 2A
 Skin Sensitization, Category 1
 Acute Toxicity Oral, Category 4

GHS Label elements, including precautionary statements



Signal word

Warning

Hazard statements

Causes skin irritation.
 Causes eye irritation.
 May cause skin reaction sensitization.
 Harmful if swallowed.

Precautionary statements

Do not eat, drink or smoke when using this product.
 Use only in well ventilated area.
 Wear eye protection and protective gloves.
 IF ON SKIN: Wash with plenty of soap and water.
 Dispose of contents/container according to all applicable regulations.

Section 3 Composition/Information on Ingredients

Ingredient Name	CAS Number
Polyoxy propylene amine	9046-10-0
Sodium borosilicate	50815-87-7
Polyethylene polyamine	68131-73-7
Talc	14807-96-6

Freeman 1015 Medium-Density Epoxy Hardener

Section 4 First Aid Measures

If inhaled	Supply fresh air and seek medical attention.
In case of skin contact	Immediately wash with water and soap and rinse thoroughly. Remove contaminated clothing. Launder before re-use.
In case of eye contact	Rinse opened eye for several minutes under running water. Seek medical attention if irritation develops.
If swallowed	Do not induce vomiting. Seek medical attention immediately.

Section 5 Fire-Fighting Measures

Suitable Extinguishing Media	Use water spray (fog), foam, dry chemical or carbon dioxide.
Special Fire-Fighting Procedures	Persons exposed to products of combustion should wear self-contained breathing apparatus and full protective equipment. 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.
Unusual Fire and Explosion Hazards	May liberate large quantities of dense, foul-smelling smoke, which may contain unidentified toxic gasses.
Hazardous Decomposition Products	Carbon dioxide, carbon monoxide, oxides of nitrogen, and undetermined organics.

Section 6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.
Environmental precautions	Do not allow product to enter sewers/surface or ground water. Wear appropriate protective equipment and clothing during clean-up. Prevent further leakage or spillage if safe to do so.
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

Precautions for safe handling	Ensure good ventilation. Protect from heat. Empty containers may retain product residue. Obey hazard warnings and handle empty containers as if they were full.
Conditions for safe storage	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.

Freeman 1015 Medium-Density Epoxy Hardener

Section 8 Exposure Controls/Personal Protection

Exposure controls

Appropriate engineering controls

Provide adequate local exhaust ventilation or other engineering controls to minimize airborne concentrations of mists and/or vapors. An eye wash station and safety shower should be located near the workstation.

Personal protective equipment

Eye/face protection

Wear safety glasses equipped with side shields, or chemical goggles if splashing is a possibility.

Skin protection

Hand Protection

Wear protective gloves. The glove material must be impermeable and resistant to the product.

Body Protection

Wear protective clothing and boots.

Respiratory Protection

The need for respiratory protection is not anticipated under normal use conditions and with adequate ventilation. If elevated airborne concentrations exist, or irritation is experienced, a NIOSH-approved respirator should be used.

General Hygienic Practices

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	Light brown dough
Odor	Mild
Odor Threshold	No data available
pH	No data available
Melting Point	No data available
Initial boiling point	Decomposes
Flash Point	>265°F (>129°C)
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability	No data available
Vapor Pressure	<1 mm Hg at 72°F
Vapor density	No data available
Density at 72°F	5.84 lb/gal
Specific gravity	0.70
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
Percent solid by weight	34%
% Volatile	0

Freeman 1015 Medium-Density Epoxy Hardener

Section 10 Stability and Reactivity

Stability

Stable at normal conditions.

Hazardous reactions

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

Reacts with amines.

Hazardous decomposition products

Carbon monoxide, carbon dioxide, and/or low molecular weight hydrocarbons and undetermined organics.

Conditions to avoid

Avoid mixing resin and curing agent 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. Strong Lewis or mineral acids

Section 11 Toxicological Information

Relevant routes of exposure and Potential Health Effects/Symptoms:

- Inhalation May cause respiratory tract irritation.
- Skin contact May cause irritation to the skin. May cause an allergic skin reaction.
- Eye contact May cause irritation to the eyes.
- Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Section 12 Ecological Information

- Ecotoxicity** 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

Dispose of material according to Local, State, and Federal Regulations.
 Material, if discarded, is not expected to be a characteristic hazardous waste under RCRA.

Section 14 Transport Information

- DOT:** Not regulated
- IMDG:** Not regulated
- IATA:** Not regulated

Freeman 1015 Medium-Density Epoxy Hardener

Section 15 Regulatory Information

Toxic Substance Control Act

All components are listed or are exempt from listing on the TSCA 8 (b) Inventory.
TSCA 12 (b) Export Notification: No reportable components.

US Federal Regulations

CERCLA Hazardous Substance (40 CFR 302.4): No reportable components.
SARA Title III Sec. 311/312 Codes: Immediate Health, Delayed Health
SARA Title III Sec. 313 Toxic Chemicals (40 CFR 372.65): No reportable components.

State Regulations

California Prop 65: This product is not known to contain any components for which the State of California has found to cause cancer, birth defects or other reproductive harm.

Canadian Regulations

CEPA DSL: All components are listed or are exempt from listing on the Canadian Domestic Substances List.

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.