



Freeman 1569 Resin

# Section 1 Chemical Product and Company Identification

# **1.1 Product identifiers**

Product name: Freeman 1569 Tooling Paste Resin

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

Identified uses: Epoxy constituent

# **1.3 Details of the supplier of the safety data sheet** Freeman Manufacturing & Supply Company 1101 Moore Road, Avon, OH 44011 Telephone (440) 934-1902 contactus@freemansupply.com

# 24 Hour Emergency Telephone Number CHEMTREC: (800) 424-9300

Section 2 Hazards Identification

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

Eye Irritation, Category 2A Skin Irritation, Category 2 Skin Sensitization, Category 1 Specific Target Organ Toxicity (Single Exposure) (Respiratory Tract), Category 3 Acute Toxicity, Oral, Category 4

# 2.2 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.

Wash hands and face thoroughly after handling.

Avoid breathing dust, fume, gas, mist, vapors, or spray.

Use only outdoors or in a well-ventilated area.

Keep container tightly closed when not in use.

Wear protective gloves/eye protection/face protection.

Do not allow contaminated work clothing to leave 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 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.

If inhaled: Remove person to fresh air and get medical attention if ill or concerned.

# Section 2 Hazards Identification continued

**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.

#### Section 3 Composition/Information on Ingredients

# 3.1 Mixture

Ingredient Name	CAS Number
Epoxy Resin	25068-38-6
Amorphous Sodium Borosilicate	50815-87-8

There are no additional ingredients present which within the current knowledge of the supplier and in 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**

#### 4.1 Description of first aid measures

If inhaled: Move person into fresh air. If you feel 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 occur.

**In case of eye contact:** Flush eyes with water for at least 15 minutes. Remove contact lenses if easy to do and continue rinsing. Get medical attention if irritation develops.

**If swallowed:** Rinse mouth. Do not induce vomiting unless directed to do so by medical personnel. Get medical help if you feel unwell.

# 4.2 Most important symptoms and effects, both acute and delayed

See Section 11

# 4.3 Indication of any immediate medical attention and special treatment needed

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

# **Section 5 Fire Fighting Measures**

# 5.1 Extinguishing media

Suitable extinguishing media: Use water for or fine spray, alcohol-resistant foam, dry chemical, or carbon dioxide. Foam or alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams or proteins may function but will be less effective.

Unsuitable extinguishing media: Direct heavy water stream may spread fire.

# 5.2 Special hazards arising from the substance or mixture

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

Thermal decomposition products may include carbon monoxide, carbon dioxide, and halogenated compounds.

# 5.3 Advice for firefighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Wear appropriate protective equipment and 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 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. **6.2 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. 6.3 Methods and materials for containment and cleaning 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** 7.1 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.) 7.2 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** 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. If ventilation is not adequate, use respiratory protection equipment. 8.3 Personal protective equipment **Eye/face protection** Use safety glasses equipped with side shields. Use chemical goggles if there is a risk of splashing. 8.4 Skin protection

# **Hand Protection**

The glove material must be impermeable and resistant to the product/the substance/the preparation. Due to missing tests no recommendation to the glove material can be given. Contaminated gloves should be replaced.

# **Body Protection**

Prevent skin contact when handling material.

# Section 8 Exposure Controls/Personal Protection continued

# **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, use a NIOSH-approved organic vapor respirator equipped with a dust/mist prefilter.

# 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	White foam
Odor	Mild
Odor Threshold	No data available
рН	No data available
Melting Point	No data available
Boiling Point	No data available
Flash Point	216°C (420°F)
<b>Evaporation Rate</b>	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
Specific Gravity	$0.48 \pm 0.05$
Relative Density at 72 °F	4.01 lb./gal.
Water Solubility	Slight
Coefficient: n-octanol/ water	No data available
Auto-ignition temperature	No data available
Viscosity	No data available
% Volatile	0%
Se	ection 10 Stability and Reactivity

10.1 Reactivity	Not available
10.2 Chemical stability	Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use,
	hazardous reactions should not occur.
10.4 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.
10.5 Incompatible materials	Keep away from strong oxidizing agents. Avoid contact with acids,
	bases or unintended contact with amines.
10.6 Hazardous decomposition products	Thermal oxidative decomposition can produce carbon monoxide,
	carbon dioxide, and undetermined organic materials.

Section 11 Toxicological Information	
1.1 Information on toxicological effects	
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:
Dognizatory or chin	No specific data.
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	Not expected to be a hazard
Specific target organ toxicity	not expected to be a nazaru
- single exposure	No data available
Specific target organ toxicity	
- repeated exposure	No data available
Sec	ction 12 Ecological Information
2.1 Toxicity	No data available
2.2 Persistence and degradability	No data available
2.3 Bioaccumulative potential	No data available
2.4 Mobility in soil	No data available
2.5 Results of PBT & vPvB assessment	No data available
Sec	tion 13 Disposal Considerations
3.1 Disposal	Follow applicable Federal, State, and local regulations.
Sec	ction 14 Transport Information
4.1 DOT/IMDG/IATA	Not Regulated
Sec	tion 15 Regulatory Information
	non 10 Regulatory micromation
5.1 US Federal Regulations	
RCRA Hazardous Waste Number (4	
RCRA Hazardous Waste Classificat	
-	ithorization Act of 1986 Title III (Emergency Planning and 1986) Sections 211 and 212: See Section 2
Community Right-to-Know Act of	<b>1986) Sections 311 and 312</b> : See Section 2

# Section 15 Regulatory Information continued

**Superfund Amendments and Reauthorization Act of 1986 Title Ill (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 Ill, Section 313.

**TSCA Inventory Status:** All ingredients listed on TSCA inventory requirements.

# **15.2 State Regulations**

**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 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.

#### **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.

Issue Date: September 23, 2022 Revision Date: Not Applicable





# Freeman 1569 Hardener

# Section 1 Chemical Product and Company Identification

#### **1.1 Product identifiers**

Product name: Freeman 1569 Tooling Paste Hardener

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

Identified uses: Epoxy constituent

# **1.3 Details of the supplier of the safety data sheet** Freeman Manufacturing & Supply Company 1101 Moore Road, Avon, OH 44011 Telephone (440) 934-1902 contactus@freemansupply.com

# 24 Hour Emergency Telephone Number CHEMTREC: (800) 424-9300

Section 2 Hazards Identification

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

Eye Irritation, Category 2A Skin Irritation, Category 2 Skin Sensitization, Category 1 Specific Target Organ Toxicity (Single Exposure) (Respiratory Tract), Category 3 Acute Toxicity, Oral, Category 4

# 2.2 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.

Wash hands and face thoroughly after handling.

Avoid breathing dust, fume, gas, mist, vapors, or spray.

Use only outdoors or in a well-ventilated area.

Keep container tightly closed when not in use.

Wear protective gloves/eye protection/face protection.

Do not allow contaminated work clothing to leave 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 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.

If inhaled: Remove person to fresh air and get medical attention if ill or concerned.

# Section 2 Hazards Identification continued

**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.

# Section 3 Composition/Information on Ingredients

# 3.1 Mixture

Ingredient Name	CAS Number
N(2-Aminoethyl) Piperazine	140-31-8
Polyethylene Polyamine	68131-73-7

There are no additional ingredients present which within the current knowledge of the supplier and in 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**

# 4.1 Description of first aid measures

If inhaled: Move person into fresh air. If you feel 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 occur.

**In case of eye contact:** Flush eyes with water for at least 15 minutes. Remove contact lenses if easy to do and continue rinsing. Get medical attention if irritation develops.

**If swallowed:** Rinse mouth. Do not induce vomiting unless directed to do so by medical personnel. Get medical help if you feel unwell.

# 4.2 Most important symptoms and effects, both acute and delayed

See Section 11

# 4.3 Indication of any immediate medical attention and special treatment needed

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

# **Section 5 Fire Fighting Measures**

# 5.1 Extinguishing media

Suitable extinguishing media: Use water for or fine spray, alcohol-resistant foam, dry chemical, or carbon dioxide. Foam or alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams or proteins may function but will be less effective.

Unsuitable extinguishing media: Direct heavy water stream may spread fire.

# 5.2 Special hazards arising from the substance or mixture

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

Thermal decomposition products may include carbon monoxide, carbon dioxide, and halogenated compounds. vice for firefighters

# 5.3 Advice for firefighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Wear appropriate protective equipment and 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

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.

#### **6.2 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.

# 6.3 Methods and materials for containment and cleaning 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

# 7.1 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.)

# 7.2 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

# 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. If ventilation is not adequate, use respiratory protection equipment.

#### 8.3 Personal protective equipment

# **Eye/face protection**

Use safety glasses equipped with side shields. Use chemical goggles if there is a risk of splashing.

# 8.4 Skin protection

# Hand Protection

The glove material must be impermeable and resistant to the product/the substance/the preparation. Due to missing tests no recommendation to the glove material can be given. Contaminated gloves should be replaced.

#### **Body Protection**

Prevent skin contact when handling material.

# Section 8 Exposure Controls/Personal Protection continued

# **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, use a NIOSH-approved organic vapor respirator equipped with a dust/mist prefilter.

#### **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	Blue liquid
Odor	Mild
Odor Threshold	No data available
рН	No data available
Melting Point	No data available
Boiling Point	°C (>380°F)
Flash Point	°C (215°F)
Evaporation Rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability	No data available
Vapor Pressure	< 1 mm Hg
Vapor Density (air = 1)	5.04
Specific Gravity	$0.96 \pm 0.05$
Relative Density at 72 °F	8.01 lb./gal.
Water Solubility	Slight
Coefficient: n-octanol/ water	No data available
Auto-ignition temperature	No data available
Viscosity	No data available
% Volatile	0%
S	ection 10 Stability and Reactivity

10.1 Reactivity	Not available
10.2 Chemical stability	Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use,
	hazardous reactions should not occur.
10.4 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.
10.5 Incompatible materials	Keep away from strong oxidizing agents. Avoid contact with acids,
	bases.
10.6 Hazardous decomposition products	Thermal oxidative decomposition can produce carbon monoxide,
	carbon dioxide, and undetermined organic materials.

May cause respiratory tract irritation. Adverse symptoms may include: respiratory tract irritation/coughing. This product may cause irritation to the skin. May cause an allergic skin reaction. Adverse symptoms may include: irritation, redness or rash		
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May cause an allergic skin reaction.		
Adverse symptoms may include: irritation redness or rash		
This product may cause serious eye irritation.		
Adverse symptoms may include: pain, irritation,		
watering or redness.		
Irritating to mouth, throat and stomach.		
Adverse symptoms: No specific data.		
No data available		
No data available		
No component of this product present at levels greater than or equal to		
0.1% is identified as a carcinogen or potential carcinogen.		
Not expected to be a hazard		
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No data available		
No data available		
n 12 Ecological Information		
No data available		
1 13 Disposal Considerations		
Follow applicable Federal, State, and local regulations.		
Section 14 Transport Information		
Not Regulated		
n 15 Regulatory Information		

# Section 15 Regulatory Information continued

TSCA Inventory Status: All ingredients listed on TSCA inventory requirements.

# **15.2 State Regulations**

**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 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.

# 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.

Issue Date: September 23, 2022 Revision Date: Not Applicable