

Safety Data Sheet
Freeman 1030 Part A (Resin)

Section 1 Identification

Product identifiers

Freeman 1030 Polyurethane Reinforcement Paste Part A (Resin)

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

Two component fiber-filled urethane tooling paste. For professional / industrial use only.

Details of the supplier of the safety data sheet:

Freeman Manufacturing & Supply Company
1101 Moore Road, Avon, OH 44011-4043 USA
Telephone: +1 (440) 934-1902
Email: contactus@freemansupply.com

24 Hour Emergency Number
1-800-255-3924

Section 2 Hazards Identification

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

Acute toxicity, inhalation – Category 4
Skin corrosion/irritation – Category 2
Serious eye damage/irritation - Category 2A
Respiratory sensitization – Category 1
Skin sensitization – Category 1
Carcinogenicity – Category 2
Specific target organ toxicity, single exposure – Category 3 (respiratory)
Specific target organ toxicity, repeated exposure - Category 2 (respiratory)

Label elements



Danger

Hazard statements

H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335 - May cause respiratory irritation
H351 - Suspected of causing cancer
H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statements

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wear protective gloves/clothing and eye/face protection.
Use only outdoors or in a well-ventilated area.
Wash face, hands and any exposed skin thoroughly after handling.
In case of inadequate ventilation wear respiratory protection.
Contaminated work clothing must not be allowed out of the workplace.
Do not breathe dust/fume/gas/mist/vapors/spray.
IF exposed or concerned: Get medical advice/attention.
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 advice/attention.

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Section 2 Hazards Identification

IF ON SKIN: Wash with plenty of water and soap.
 Take off contaminated clothing and wash it before reuse.
 If skin irritation or rash occurs: Get medical advice/attention.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 If experiencing respiratory symptoms: Call a POISON CENTER or doctor.
 Store locked up.
 Store in a well-ventilated place. Keep container tightly closed.
 Dispose of contents/container to an approved waste disposal plant.

Other information

May be harmful in contact with skin. May cause long lasting harmful effects to aquatic life.

Section 3 Composition/Information on Ingredients

Ingredient Name	CAS Number	Weight (%)
4,4' Methylene bis(phenylisocyanate) (MDI)	101-68-8	15-40
Methylenediphenyl diisocyanate	26447-40-5	0.5-1.5

Components not listed are either nonhazardous or below reporting limits

Section 4 First Aid Measures

Description of first aid measures

Inhalation: May cause allergic respiratory reaction. If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.
Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eyes wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.
Skin contact: May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician. Wash off immediately with soap and plenty of water for at least 15 minutes.
Ingestion: May produce an allergic reaction. Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical attention.

Most important symptoms and effects, both acute and delayed

May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/ or wheezing. Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation. Difficulty in breathing. May cause damage to organs through prolonged or repeated exposure.

Indication of any immediate medical attention and special treatment needed

May cause sensitization in susceptible persons. Treat symptomatically.

Section 5 Fire-Fighting Measures

Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
 Use of water spray when fighting fire may be inefficient.
 Do not scatter spilled material with high pressure water streams.

Special hazards arising from the substance or mixture

Product is or contains a sensitizer. May cause sensitization by inhalation. May cause sensitization by skin contact.

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Section 5 Fire-Fighting Measures

Advice for firefighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.
Use personal protection equipment.

Section 6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid breathing vapors or mists.

Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Pick up and transfer into properly labeled containers. Clean contaminated objects and areas thoroughly observing environmental regulations.

Section 7 Handling and Storage

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Avoid breathing vapors or mists.

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.
Keep out of the reach of children.

Section 8 Exposure Controls/Personal Protection

Components with workplace control parameters

Ingredient Name	ACGIH TLV	OSHA PEL	NIOSH
4,4' Methylene bis(phenylisocyanate) (MDI) 101-68-8	TWA: 0.005 ppm	Ceiling: 0.02 ppm 0.2 mg/m ³	IDLH: 75 mg/m ³ Ceiling: 0.020 ppm 0.2 mg/m ³ 10 min TWA: 0.005 ppm TWA: 0.05 mg/m ³
Methylenediphenyl diisocyanate 26447-40-5	Not available	Ceiling: 0.02 ppm 0.2 mg/m ³	Not available

Appropriate engineering controls

Use with good ventilation. Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Personal protective equipment (PPE) Exposure controls

Respiratory Protection: Respiratory protection is not normally required when using this product with adequate local exhaust ventilation. Where risk assessment shows air-purifying respirators are appropriate, follow OSHA respirator regulations 29 CFR 1910.134 and European Standards EN 141, 143 and 371; wear an MSHA/NIOSH or European Standards EN 141, 143 and 371 approved respirators equipped with appropriate filter cartridges as a backup to engineering controls.

Hand Protection: Wear any liquid-tight gloves such as butyl rubber, neoprene or PVC.

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Section 8 Exposure Controls/Personal Protection

Eye Protection: Safety glasses with side shields per OSHA eye- and face-protection regulations 29 CFR 1910.133 and European Standard EN166.

General Hygienic Practices

Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and immediately after handling the product.

Section 9 Physical and Chemical Properties

Appearance	Amber liquid
Odor	Musty
Odor Threshold	No data available
pH	Non-aqueous
Freezing/melting point	2.77°C (37°F)
VOC Content	None
Initial boiling point & boiling range	No data available
Flash Point	>148°C (>300°F)
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability	No data available
Vapor pressure	<0.00016 mmHg at 20°C (68°F)
Vapor density	>1
Relative density	No data available
Water Solubility	Insoluble
Coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Viscosity	30-100 cP

Section 10 Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Chemical stability

Stable at room temperature in closed containers under normal storage and handling conditions.

Possibility of hazardous reactions

None under normal processing conditions

Conditions to avoid

Excessive heat.

Incompatible materials

Strong bases and acids Strong oxidizing agents.

Hazardous decomposition products

Thermal oxidative decomposition can produce carbon oxides, gases/vapors, and traces of incompletely burned carbon compounds.

Section 11 Toxicological Information

Acute toxicity values

Acute oral toxicity: 7,204.60 mg/kg

Acute inhalation toxicity: 1.50 mg/l

Acute dermal toxicity: 3,123.80 mg/kg

Acute and chronic health effects

Inhalation: May cause sensitization in susceptible persons. (based on components).

May cause irritation of respiratory tract. Harmful by inhalation.

Eye contact: Causes serious eye irritation. May cause redness, itching, and pain.

Skin contact: Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. May cause sensitization by skin contact. Causes skin irritation.

Ingestion: May cause additional effects as listed under "Inhalation". Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye irritation.

Respiratory or skin sensitization: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. Coughing and/ or wheezing. Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes.

Germ cell mutagenicity: No data available

Carcinogenicity: Contains a known or suspected carcinogen. Classification based on data available for ingredients. Suspected of causing cancer. 4,4-Methylenediphenyl diisocyanate (101-68-8) IARC Group 3. Methylenediphenyl diisocyanate (26447-40-5) IARC Group 3.

Reproductive toxicity: No data available

Specific target organ toxicity - single exposure: May cause respiratory irritation

Specific target organ toxicity - repeated exposure: May cause damage to organs through prolonged or repeated exposure.

Section 12 Ecological Information

Ecotoxicity: May cause long lasting harmful effects to aquatic life.

Persistence and Degradability: No information available

Bioaccumulative Potential: 4,4-Methylenediphenyl diisocyanate (101-68-8) Partition coefficient = 4.51; Methylenediphenyl diisocyanate (26447-40-5) Partition coefficient = 4.5

Mobility in Soil: No data available

Results of PBT and vPvB assessment: No data available

Section 13 Disposal Considerations

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. Do not reuse empty containers.

Section 14 Transport Information

DOT/IMDG/IATA: Not Regulated

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Section 15 Regulatory Information

U.S. Federal Regulations

SARA Titel III, Section 313: Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

4,4' Methylene bis(phenylisocyanate) (MDI) (101-68-8); Methylenediphenyl diisocyanate (26447-40-5)

CWA (Clean Water Act): This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA: This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302). 4,4-Methylenediphenyl diisocyanate (101-68-8) RQ 5000 lb.

Section 16 Other Information

NFPA Health: 4
Flammability: 0
Instability: 0
Special Hazards: -

HMIS Health: 2
Flammability: 0
Physical Hazards: 0
Personal Protection: X

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.

Initial release date: December 1, 2015

Date of previous revision: October 26, 2018

Date of current revision: April 1, 2025

Safety Data Sheet

Freeman 1030 Part B (Hardener)

Section 1 Identification

Product identifiers

Freeman 1030 Polyurethane Reinforcement Paste Part B (Hardener)

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

Two component fiber-filled urethane tooling paste. For professional / industrial use only.

Details of the supplier of the safety data sheet:

Freeman Manufacturing & Supply Company
1101 Moore Road, Avon, OH 44011-4043 USA
Telephone: +1 (440) 934-1902
Email: contactus@freemansupply.com

24 Hour Emergency Number
1-800-255-3924

Section 2 Hazards Identification

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

Not a hazardous substance or mixture according to United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200).

Label elements

None

Other information

May be harmful if swallowed. May be harmful in contact with skin. Harmful to aquatic life with long lasting effects.

Section 3 Composition/Information on Ingredients

No ingredients are hazardous according to Regulation 2012 OSHA Hazard Communication Standard 29 CFR 1910.1200 criteria.

Section 4 First Aid Measures

Description of first aid measures

Inhalation: Remove source(s) of contamination and move victim to fresh air. If breathing has stopped, give artificial respiration, then oxygen if needed. Contact physician immediately.

Eye Contact: Flush eyes with plenty of water. If irritation persists, seek medical attention.

Skin Contact: In case of skin contact, wash thoroughly with soap and water.

Ingestion: Do not induce vomiting unless instructed by a physician. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

None known

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Section 5 Fire-Fighting Measures

Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Use of water spray when fighting fire may be inefficient.

Do not scatter spilled material with high pressure water streams.

Special hazards arising from the substance or mixture

No information available.

Safety Data Sheet

Freeman 1030 Part B (Hardener)

Section 5 Fire-Fighting Measures

Advice for firefighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.
Use personal protection equipment.

Section 6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation.

Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Pick up and transfer into properly labeled containers.
Clean contaminated objects and areas thoroughly observing environmental regulations.

Section 7 Handling and Storage

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.
Keep out of the reach of children.

Section 8 Exposure Controls/Personal Protection

Components with workplace control parameters

None identified

Appropriate engineering controls

Use with good ventilation. Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Personal protective equipment (PPE)Exposure controls

Respiratory Protection: Respiratory protection is not normally required when using this product with adequate local exhaust ventilation. Where risk assessment shows air-purifying respirators are appropriate, follow OSHA respirator regulations 29 CFR 1910.134 and European Standards EN 141, 143 and 371; wear an MSHA/NIOSH or European Standards EN 141, 143 and 371 approved respirators equipped with appropriate filter cartridges as a backup to engineering controls.

Hand Protection: Wear any liquid-tight gloves such as butyl rubber, neoprene or PVC.

Eye Protection: Safety glasses with side shields per OSHA eye- and face-protection regulations 29 CFR 1910.133 and European Standard EN166.

General Hygienic Practices

Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and immediately after handling the product.

Section 9 Physical and Chemical Properties

Appearance	Liquid
Odor	Mild
Odor Threshold	No data available
pH	Non-aqueous
Freezing/melting point	No data available

Section 9 Physical and Chemical Properties

VOC Content	None
Initial boiling point & boiling range	No data available
Flash Point	>148°C (>300°F)
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability	No data available
Vapor pressure	No data available
Vapor density	>1
Relative density (g/cc)	1.2
Water Solubility	Insoluble
Coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Viscosity	No data available

Section 10 Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Chemical stability

Stable at room temperature in closed containers under normal storage and handling conditions.

Possibility of hazardous reactions

None under normal processing conditions

Conditions to avoid

None known based on information supplied.

Incompatible materials

None known based on information supplied.

Hazardous decomposition products

None known based on information supplied.

Section 11 Toxicological Information

Acute toxicity values

Specific test data for the substance or mixture is not available.

Acute and chronic health effects

Inhalation: May cause irritation of respiratory tract.

Eye contact: Contact with eyes may cause irritation.

Skin contact: May be harmful in contact with skin.

Ingestion: May be harmful if swallowed.

Skin corrosion/irritation: Not classification based on ingredients.

Serious eye damage/eye irritation: Not classification based on ingredients.

Respiratory or skin sensitization: Not classification based on ingredients.

Germ cell mutagenicity: Not classification based on ingredients.

Carcinogenicity: Not classification based on ingredients.

Reproductive toxicity: Not classification based on ingredients.

Specific target organ toxicity - single exposure: No information available.

Specific target organ toxicity - repeated exposure: No information available.

Safety Data Sheet

Freeman 1030 Part B (Hardener)

Section 12 Ecological Information

Ecotoxicity: Harmful to aquatic life with long lasting effects.
Persistence and Degradability: No information available
Bioaccumulative Potential: No information available.
Mobility in Soil: No information available.
Results of PBT and vPvB assessment: No information available.

Section 13 Disposal Considerations

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. Do not reuse empty containers.

Section 14 Transport Information

DOT/IMDG/IATA: Not Regulated

Section 15 Regulatory Information

U.S. Federal Regulations

SARA Titel III, Section 313: This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

CWA (Clean Water Act): This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA: This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Section 16 Other Information

NFPA Health: 1
 Flammability: 1
 Instability: 0
 Special Hazards: -

HMIS Health: 1
 Flammability: 1
 Physical Hazards: 0
 Personal Protection: X

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.

Initial release date: December 1, 2015
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