

**Section 1 Identification**

**Product identifiers**

Product name: Freeman 1030 Part A

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

Identified uses: Polyurethane Elastomer

**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	1
PPE	
Sec. 8	

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

**Section 2 Hazards Identification**

**Classification of the substance or mixture**

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

- Skin corrosion/irritation – Category 2
- Skin sensitization – Category 1
- Eye Damage/irritation - Category 2B
- Acute toxicity, inhalation – Category 4
- Respiratory Sensitization – Category 1
- Specific target organ toxicity – single exposure – Category 3 (respiratory)
- Carcinogenicity – Category 2
- Specific Target Organ Toxicity, repeated exposure Category 2 (respiratory)

**GHS Label elements, including precautionary statements**



Signal word

Danger

**Hazard statements**

- Causes skin irritation.
- May cause an allergic skin reaction.
- Causes eye irritation.
- Harmful if inhaled.
- May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- May cause respiratory irritation.
- Suspected of causing cancer.
- May cause damage to organs through prolonged or repeated exposure (inhalation).

**Precautionary statements**

Prevention

- Keep container tightly closed when not in use.
- Wear protective gloves/eye protection/face protection.
- Avoid breathing mist, vapors or spray.

**Section 2 Hazards Identification** continued

Do not eat, drink or smoke when using this product.  
 Wash skin and face thoroughly after handling.  
 Use only outdoors or in a well-ventilated area.  
 Contaminated work clothing must not be allowed out of the workplace.  
 In case of inadequate ventilation wear respiratory protection.

**Response**

If swallowed: Call a poison center or doctor/physician if you feel unwell.  
 If on skin: Wash with plenty of soap and water.  
 If inhaled: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.  
 If experiencing respiratory symptoms: Get medical advice/attention.  
 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 skin irritation or rash occurs: Get medical advice/attention.  
 Take off contaminated clothing and wash before reuse.

**Storage**

Store in a well-ventilated place. Keep cool.

**Disposal**

Dispose of contents and container to an appropriate waste site in accordance with local, state, and federal regulations.

**Hazards not otherwise classified (HNOC) or not covered by GHS**

None known.

**Section 3 Composition/Information on Ingredients**

<b>Ingredient Name</b>	<b>CAS Number</b>	<b>Concentration (%)</b>
4,4' Methylene bis(phenylisocyanate) (MDI)	101-68-8	15-35
Benzene, 1,1'-methylenebis[4-isocyanato-], homopolymer	25686-28-6	5-10
Methylenediphenyl diisocyanate	26447-40-5	< 1.5

**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**

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Section 5 Fire-Fighting Measures**

**Extinguishing Media:** Water Fog, Dry Chemical, and Carbon Dioxide Foam  
**Special hazards arising from the substance or mixture:** None known.  
**Advice for firefighters:** Use water spray to cool fire-exposed surfaces and to protect personnel. Shut off “fuel” to fire. If a leak or spill has not ignited, use water spray to disperse the vapors. Either allow fire to burn under controlled conditions or extinguish with foam or dry chemical. Try to cover liquid spills with foam. Because fire may produce toxic thermal decomposition products, wear a self- contained breathing apparatus (SCBA) with a full face piece operated in pressure demand or positive-pressure mode.

**Section 6 Accidental Release Measures**

**Personal precautions, protective equipment and emergency procedures:** Only properly protected personnel should remain in the spill area; dike and contain spill.  
**Environmental precautions:** Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains or unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers. No special environmental precautions required.  
**Methods and material for containment and cleaning up:** Put on appropriate protective gear including NIOSH/MSHA approved self-contained breathing apparatus, rubber boots and heavy rubber gloves. Dike and contain spill; absorb or scrape up excess into suitable container for disposal; wash area with dilute ammonia solution. Stop or reduce discharge if it can be done safely. Follow applicable OSHA regulations (29 CFR 1910.120) for disposal.

**Section 7 Handling and Storage**

**Precautions for safe handling:** Use good general housekeeping procedures. Wash hands after use. Do not get in eyes, on skin or on clothing. Do not breathe vapors or mists. Use good personal hygiene practices.  
**Conditions for safe storage, including any incompatibilities:** Keep container(s) tightly closed and properly labeled. Store in cool, dry, well ventilated place away from heat, direct sunlight, strong oxidizers and any incompatibles. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty containers retain residue and may be dangerous. Avoid water contamination.  
**Specific end use(s):** These precautions are for room temperature handling. Other uses including elevated temperatures or aerosol/spray applications may require added precautions.

**Section 8 Exposure Controls/Personal Protection**

**Control parameters**

**Components with workplace control parameters**

Component	CAS Number	Value	Control Parameters	Basis
4,4' Methylene bis(phenylisocyanate) (MDI)	101-68-8	0.005 ppm	TWA	ACGIH

**Section 8 Exposure Controls/Personal Protection continued**

**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.

**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**

<b>Appearance</b>	Amber liquid
<b>Odor</b>	Musty
<b>Odor Threshold</b>	No data available
<b>pH</b>	Non-aqueous
<b>Melting Point</b>	No data available
<b>VOC Content</b>	None
<b>Initial boiling point &amp; boiling range</b>	No data available
<b>Flash Point</b>	>300°F
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Upper/lower flammability</b>	No data available
<b>Vapor Pressure</b>	<0.00016 mmHg (68°F)
<b>Vapor density</b>	>1
<b>Relative density (g/cc)</b>	No data available
<b>Water Solubility</b>	Insoluble
<b>Coefficient: n-octanol/water</b>	No data available
<b>Auto-ignition temperature</b>	No data available
<b>Viscosity</b>	30-100 cP
<b>Explosive Properties</b>	None
<b>Oxidizing Properties</b>	None
<b>% Volatile</b>	None

**Section 10 Stability and Reactivity**

**Reactivity**

No hazardous reactions if stored and handled as prescribed/indicated., No corrosive effect on metal. Not fire propagating.

**Chemical stability**

These products are stable at room temperature in closed containers under normal storage and handling conditions.

**Possibility of hazardous reactions**

Hazardous polymerization cannot occur

**Conditions to avoid**

None known

**Incompatible materials**

Strong bases and acids

**Hazardous decomposition products**

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

**Section 11 Toxicological Information**

**Information on toxicological effects**

<b>Acute oral toxicity</b>	LD50 oral (rat): > 6,250 mg/kg
<b>Acute inhalation toxicity</b>	LC50 inhalation (rat): >6.25 mg/l
<b>Acute Dermal toxicity</b>	LD50 dermal (rabbit): > 29,400 mg/kg
<b>Skin corrosion/irritation</b>	Irritating
<b>Serious eye damage/eye irritation</b>	Irritating
<b>Respiratory or skin sensitization</b>	Skin sensitizer and respiratory sensitizer
<b>Germ cell mutagenicity</b>	No data available
<b>Carcinogenicity:</b>	A carcinogenic potential cannot be excluded after prolonged exposure to severely irritating concentrations. These effects are not relevant to humans at occupational levels of exposure.
<b>Reproductive toxicity</b>	No data available
<b>Specific target organ toxicity</b>	
- single exposure	No data available
<b>Specific target organ toxicity</b>	
- repeated exposure	No data available

**Section 12 Ecological Information**

**Toxicity**

LC0 (96 h): > 1,000 mg/l, Brachydanio rerio (OECD Guideline 203, static)  
 EC50 (24 h): > 1,000 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)  
 EC0 (72 h): 1,640 mg/l (growth rate), Scenedesmus subspicatus, (OECD Guideline 201, static)

**Persistence and Degradability**

Poorly biodegradable (0% BOD OECD Guideline 302 C). This product is unstable in water. The elimination data also refer to products of hydrolysis.

**Bioaccumulative Potential**

Significant accumulation in organisms is not to be expected. Bioconcentration factor 200 (28 d) Cyprinus carpio (OECD Guideline 305 E)

**Section 12 Ecological Information continued**

**Mobility in Soil**

Adsorption to solid soil phase is not expected.

**Results of PBT and vPvB assessment**

No data available

**Other Adverse Effects**

The substance will not evaporate into the atmosphere from the water surface.

**Section 13 Disposal Considerations**

**Waste treatment methods**

Under Resource Conservation and Recovery Act (RCRA) it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste as defined in 40 CFR Part 261. Waste management should be in full compliance with federal, state and local laws. Regulations may vary in various locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

**Container disposal**

Steel drums must be emptied and can be sent to a licensed drum reconditioner for reuse, a scrap metal dealer or an approved landfill. Do not attempt to refill or clean containers since residue is difficult to remove. Under no circumstances should empty drums be burned or cut open with gas or electric torch as toxic decomposition products may be liberated. Do not reuse empty containers.

**Section 14 Transport Information**

**DOT:** Not Regulated

**IMDG:** Not Regulated

**IATA:** Not Regulated

**Section 15 Regulatory Information**

**REACH: Regulation (EC) No 1907/2006 of The European Parliament and of The Council of December 2006 (including amendments and corrigenda as of 17 February 2016):** This product complies with REACH or is not subject to regulation under REACH. The product does not contain an ingredient listed on either the Candidate List or Authorization List for Substances of Very High Concern (SVHC).

**US Federal Regulations**

**TSCA Inventory Status:** All components of this formulation are listed in the TSCA Inventory. No component of this formulation has been determined to be subject to manufacturing or use restrictions under the Significant New Use Rules (SNURs).

**SARA 311/312 Codes:** Immediate (Acute), Delayed (Chronic)

**SARA 302 Components:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA Section 313:** 4,4' Methylene bis(phenylisocyanate) (MDI), 101-68-8, 15 – 35%

**US State Regulations**

**California Proposition 65:** This product does not intentionally contain any chemicals known to the state of California to cause cancer, birth defects or 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.



**Section 1 Identification**

**Product identifiers**

Product name: Freeman 1030 Part B

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

Identified uses: Polyurethane Elastomer

**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	
<b>H</b>	1
<b>F</b>	0
<b>R</b>	0
<b>PPE</b>	
Sec. 8	

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

**Section 2 Hazards Identification**

**Classification of the substance or mixture**

**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), the Canadian Workplace Hazardous Materials Information System (WHMIS) and Regulation (EC) No 1272/2008 and subsequent amendments.

**GHS Label elements, including precautionary statements**

**Pictogram(s):** none

**Signal word:** none

**Precautionary statements**

If medical advice is needed, have product container or label at hand.  
 Keep out of reach of children.  
 Read label before use.

**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



**Section 5 Fire-Fighting Measures**

**Extinguishing Media:** Water Fog, Dry Chemical, and Carbon Dioxide Foam  
**Special hazards arising from the substance or mixture:** None known.  
**Advice for firefighters:** Use water spray to cool fire-exposed surfaces and to protect personnel. Shut off “fuel” to fire. If a leak or spill has not ignited, use water spray to disperse the vapors. Either allow fire to burn under controlled conditions or extinguish with foam or dry chemical. Try to cover liquid spills with foam. Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure demand or positive-pressure mode.

**Section 6 Accidental Release Measures**

**Personal precautions, protective equipment and emergency procedures:** Only properly protected personnel should remain in the spill area; dike and contain spill. Stop spill/release if it can be done safely.  
**Environmental precautions:** No special environmental precautions required.  
**Methods and material for containment and cleaning up:** Absorb or scrape up excess into suitable container for disposal; wash area with dilute ammonia solution.

**Section 7 Handling and Storage**

**Precautions for safe handling:** Use good general housekeeping procedures. Wash hands after use. Do not get in eyes, on skin or on clothing. Do not breathe vapors or mists. Use good personal hygiene practices.  
**Conditions for safe storage, including any incompatibilities:** Keep container(s) tightly closed and properly labeled. Store in cool, dry, well ventilated place away from heat, direct sunlight, strong oxidizers and any incompatibles. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty containers retain residue and may be dangerous. Avoid water contamination.  
**Specific end use(s):** These precautions are for room temperature handling. Other uses including elevated temperatures or aerosol/spray applications may require added precautions.

**Section 8 Exposure Controls/Personal Protection**

**Control parameters**

None identified

**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.

**Section 8 Exposure Controls/Personal Protection continued**

**Eye Protection**

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

**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**

<b>Appearance</b>	Liquid
<b>Odor</b>	Mild
<b>Odor Threshold</b>	No data available
<b>pH</b>	Non-aqueous
<b>Melting Point</b>	No data available
<b>VOC Content</b>	None
<b>Initial boiling point &amp; boiling range</b>	No data available
<b>Flash Point (COC)</b>	>300°F
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Upper/lower flammability</b>	No data available
<b>Vapor Pressure</b>	No data available
<b>Vapor density</b>	>1
<b>Relative density (g/cc)</b>	1.20
<b>Water Solubility</b>	Insoluble
<b>Coefficient: n-octanol/water</b>	No data available
<b>Auto-ignition temperature</b>	No data available
<b>Viscosity</b>	No data available
<b>Explosive Properties</b>	None
<b>Oxidizing Properties</b>	None

**Section 10 Stability and Reactivity**

<b>Reactivity:</b>	No hazardous reactions if stored and handled as prescribed/indicated., No corrosive effect on metal. Not fire propagating.
<b>Chemical stability:</b>	These products are stable at room temperature in closed containers under normal storage and handling conditions.
<b>Possibility of hazardous reactions:</b>	Hazardous polymerization cannot occur.
<b>Conditions to avoid:</b>	None known
<b>Incompatible materials:</b>	Strong bases and acids
<b>Hazardous decomposition products:</b>	Thermal oxidative decomposition can produce carbon oxides, gasses/vapors, and traces of incompletely burned carbon compounds.

**Section 11 Toxicological Information**

**Information on toxicological effects**

<b>Acute oral toxicity</b>	LD50 Oral, rat: >37,000 mg/kg (calculated)
<b>Acute inhalation toxicity</b>	LC50 Inhalation, rat (4 h): >16.3 mg/l (calculated)
<b>Acute dermal toxicity</b>	LD50 Dermal, rabbit: >11,700 mg/kg (calculated)
<b>Skin corrosion/irritation</b>	No data available
<b>Serious eye damage/eye irritation</b>	No data available
<b>Respiratory or skin sensitization</b>	No data available
<b>Germ cell mutagenicity</b>	No data available
<b>Carcinogenicity</b>	No component of these products present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC, ACGIH or NTP.
<b>Reproductive toxicity</b>	No data available
<b>Specific target organ toxicity</b>	
- single exposure	No data available
<b>Specific target organ toxicity</b>	
- repeated exposure	No data available

**Section 12 Ecological Information**

<b>Toxicity</b>	LC50 (semi-static, 96 h): > 380 mg/l, Danio rerio EC50 (static, 48 h): >270 mg/l, Daphnia magna EC50 (static, 72 h): >330 mg/l, Desmodesmus subspicatus
<b>Persistence and degradability</b>	No data available
<b>Bioaccumulative potential</b>	No data available
<b>Mobility in soil</b>	No data available
<b>Results of PBT &amp; vPvB assessment</b>	No data available

**Section 13 Disposal Considerations**

**Waste treatment methods**

Under Resource Conservation and Recovery Act (RCRA) it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste as defined in 40 CFR Part 261. Waste management should be in full compliance with federal, state and local laws. Regulations may vary in various locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

**Container disposal**

Steel drums must be emptied and can be sent to a licensed drum reconditioner for reuse, a scrap metal dealer or an approved landfill. Do not attempt to refill or clean containers since residue is difficult to remove. Under no circumstances should empty drums be burned or cut open with gas or electric torch as toxic decomposition products may be liberated. Do not reuse empty containers.

**Section 14 Transport Information**

**DOT:** Not Regulated  
**IMDG:** Not Regulated  
**IATA:** Not Regulated

**Section 15 Regulatory Information**

**REACH: Regulation (EC) No 1907/2006 of The European Parliament and of The Council of December 2006 (including amendments and corrigenda as of 17 February 2016):** This product complies with REACH or is not subject to regulation under REACH. The product does not contain an ingredient listed on either the Candidate List or Authorization List for Substances of Very High Concern (SVHC).

**US Federal Regulations**

TSCA Inventory Status (40 CFR710): All components of this formulation are listed in the TSCA Inventory. No component of this formulation has been determined to be subject to manufacturing or use restrictions under the Significant New Use Rules (SNURs).

SARA 311/312 Codes: None

CERCLA Hazardous Substance (40 CFR 302.4) listed specific per RCRA, Sec. 3001

No chemicals in this material are subject to the reporting requirements

SARA EHS (Extremely Hazardous Substance) (40 CFR 355):


No chemicals in this material are subject to the reporting requirements

SARA Title III Section 313

No chemicals in this material are subject to the reporting requirements

**US State Regulations**

California Proposition 65

 **WARNING:** This product contains chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**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.