

Section 1 Identification

Product identifiers

Product name: Freeman 1035 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)

- Acute Toxicity, oral, Category 4
- Acute Toxicity, inhalation, Category 4
- Acute Toxicity, dermal, Category 4
- Skin Irritation, Category 2
- Eye Irritation, Category 2A
- Specific Target Organ Toxicity, single exposure, Category 3 (Respiratory System)
- Carcinogenicity, Category 2

GHS Label elements, including precautionary statements



Signal word

Warning

Hazard statements

- Harmful if swallowed, in contact with skin, or inhaled.
- Causes skin irritation.
- Causes serious eye irritation.
- May cause respiratory irritation.
- Suspected of causing cancer.

Precautionary statements

Prevention

- Keep container tightly closed when not in use.
- Wear protective gloves/eye protection/face protection.
- Avoid breathing mist, vapors or spray.
- Do not eat, drink or smoke when using this product.
- Wash skin and face thoroughly after handling.

Section 2 Hazards Identification continued

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

Lachrymator: Irritant that causes watering of the eyes.

Section 3 Composition/Information on Ingredients

Ingredient Name	CAS Number	Concentration (%)
Poly[oxy(methyl-1,2-ethanediyl)], α -hydro- Ω -hydroxy, polymer with 1,3 diisocyanatomethylbenzene	9057-91-4	> 80
Toluene-2,4-diisocyanate	584-84-9	< 1.0
Toluene-2,6-diisocyanate	90-08-7	< 0.2

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

Toluene-2,6-diisocyanate	91-08-7	ACGIH TLV	TWA: 0.001 ppm STEL: 0.005 ppm
Toluene-2,4-diisocyanate	584-84-9	OSHA PEL	CLV: 0.02 ppm 0.14 mg/m ³ TWA: 0.005 ppm 0.04 mg/m ³ STEL: 0.02 ppm 0.15 mg/m ³
		ACGIH TLV	TWA: 0.001 ppm STEL: 0.005 ppm

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

Appearance	Clear yellow viscous liquid
Odor	Sharp, pungent
Odor Threshold	No data available
pH	Non-aqueous
Melting Point	No data available
VOC Content	None
Initial boiling point & boiling range	No data available
Flash Point (COC)	>270°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)	1.04
Water Solubility	Negligible
Coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Viscosity	<5,000 cP
Explosive Properties	None
Oxidizing Properties	None
% Volatile	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

Acute oral toxicity	No data available
Acute inhalation toxicity	No data available
Acute Dermal toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitization	Skin sensitizer and respiratory sensitizer
Germ cell mutagenicity	No data available
Carcinogenicity	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.
Reproductive toxicity	No data available
Specific target organ toxicity	
- single exposure	No data available
Specific target organ toxicity	
- repeated exposure	No data available

Section 12 Ecological Information

Toxicity	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Results of PBT & vPvB assessment	No data available

Section 13 Disposal Considerations

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: Fire, Immediate (Acute), Delayed (Chronic)


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

<u>Chemical Name</u>	<u>CAS#</u>	<u>RO</u>	<u>% Reportable</u>
Toluene-2,6-diisocyanate	91-08-7	100 lb.	<0.2
Toluene-2,4-diisocyanate	584-84-9	100 lb.	<1.0

SARA Title III Section 313

<u>Chemical Name</u>	<u>CAS #</u>	<u>RO</u>	<u>% by Weight</u>
Toluene-2,6-diisocyanate	91-08-7	100 lb.	<0.2
Toluene-2,4-diisocyanate	584-84-9	100 lb.	<1.0

US State Regulations

California Proposition 65:  WARNING: This product can expose you to 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

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 1035 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	
H	1
F	0
R	0
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)

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.

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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

Appearance	Clear to amber liquid
Odor	Mild
Odor Threshold	No data available
pH	Non-aqueous
Melting Point	No data available
VOC Content	None
Initial boiling point & boiling range	No data available
Flash Point (COC)	>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)	1.15
Water Solubility	Insoluble
Coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Viscosity	No data available
Explosive Properties	None
Oxidizing Properties	None
% Volatile	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

Acute oral toxicity	LD50 Oral, rat: >37,000 mg/kg (calculated)
Acute inhalation toxicity	LC50 Inhalation, rat (4 h): >16.3 mg/l (calculated)
Acute dermal toxicity	LD50 Dermal, rabbit: >11,700 mg/kg (calculated)
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitization	Skin sensitizer and respiratory sensitizer
Germ cell mutagenicity	No data available
Carcinogenicity	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.
Reproductive toxicity	No data available
Specific target organ toxicity	
- single exposure	No data available
Specific target organ toxicity	
- repeated exposure	No data available

Section 12 Ecological Information

Toxicity	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
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

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.

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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: 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

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.