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Section 1 Identification

Product identifiers

Product name: Freeman 1105 Pourable Foam 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

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

Do not breathe dust/fume/mist/vapors/spray.

Wash with soap and water thoroughly after handling.

Use only outdoors or in a well-ventilated area.



Section 2 Hazards Identification continued

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.

In case of inadequate ventilation wear respiratory protection.

Do not eat, drink or smoke when using this product.

Response

If on skin: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

Take off contaminated clothing and wash before reuse.

If swallowed: Call a poison center or doctor/physician if you feel unwell.

If inhaled: Remove person 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. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Storage

Store in a well-ventilated place. Keep container tightly closed.

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

Ingredient Name	CAS Number	Concentration (%)
4,4' Methylene bis(phenylisocyanate) (MDI)	101-68-8	30-80
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 occasionally lifting the upper and lower eyelids. Check and remove any contact lenses if safe to do so. Continue to rinse for at least 15 minutes. If irritation develops, seek medical attention.

Skin Contact: In case of skin contact, wash thoroughly with soap and water. Continue to rinse for at least 15 minutes. Chemical burns must be treated promptly by a physician.

Ingestion: Do not induce vomiting unless instructed by a physician. Never give anything by mouth to an unconscious person. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.

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

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.

Eve 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 Amber liquid

Odor Musty

Odor ThresholdNo data availablepHNon-aqueousMelting PointNo data available

Freezing Point 37°F

Initial boiling pointNo data available

Flash Point >300°F

Evaporation rateNo data availableFlammability (solid, gas)No data availableUpper/lower flammabilityNo data available

Vapor Pressure <0.00016 mmHg (68°F)

Vapor Density>1Specific Gravity1.2Water SolubilityInsoluble

Coefficient: n-octanol/waterAuto-ignition temperature
No data available
No data available

Viscosity30-100 cPExplosive PropertiesNoneOxidizing PropertiesNone% Volatile0



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): > 6.250 mg/kgAcute inhalation toxicity LC50 inhalation (rat): >6.25 mg/l **Acute Dermal toxicity** LD50 dermal (rabbit): > 29,400 mg/kg

Skin corrosion/irritation **Irritating** Serious eye damage/eye irritation Irritating

Respiratory or skin sensitization

Can cause skin sensitization and respiratory sensitization Germ cell mutagenicity No data available

Carcinogenicity 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.

Repeated inhalation uptake of the substance did not Reproductive toxicity

cause damage to the reproductive organs. Assessment of teratogenicity showed that the substance did not cause malformations in animal studies, however toxicity to development was observed at high doses

that were toxic to the parental animals.

Specific target organ toxicity

- single exposure

No data available

Specific target organ toxicity

- repeated exposure No data available

No data available **Aspiration hazard**

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)

ECO (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.

Date of Preparation: December 26, 2018



Safety Data Sheet

Freeman 1105 Part A

Section 12 Ecological Information continued

Bioaccumulative Potential Significant accumulation in organisms is not to be

expected. Bioconcentration factor 200 (28 d) Cyprinus carpio (OECD Guideline 305 E)

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)

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



Section 15 Regulatory Information continued

SARA 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 III, Section 313.

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.



Safety Data Sheet

Freeman 1105 Part B

Section 1 Identification

Product identifiers

Product name: Freeman 1105 Pourable Foam 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

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.

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

This product contains a chemical known to be hazardous according to California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65). (See Section 15).

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

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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

None defined

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.



Section 8 Exposure Controls/Personal Protection continued

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 Black liquid

Odor Mild

Odor ThresholdNo data availablepHNon-aqueousMelting PointNo data availableFreezing PointNo data availableInitial boiling pointNo data available

Flash Point >300°F

Evaporation rateNo data availableFlammability (solid, gas)No data availableUpper/lower flammabilityNo data availableVapor PressureNo data available

Vapor Density>1Specific Gravity1.20Water SolubilityInsoluble

Coefficient: n-octanol/waterNo data availableAuto-ignition temperatureNo data availableViscosityNo data available

Explosive Properties None **Oxidizing Properties** None

% Volatile No data available

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.



Safety Data Sheet

Freeman 1105 Part B

Section 11 Toxicological Information

Information on toxicological effects

Acute oral toxicityLD50 Oral, rat: >37,000 mg/kg (calculated)Acute inhalation toxicityLC50 Inhalation, rat (4 h): >16.3 mg/l (calculated)Acute dermal toxicityLD50 Dermal, rabbit: >11,700 mg/kg (calculated)

Skin corrosion/irritationNo data availableSerious eye damage/eye irritationNo data availableRespiratory or skin sensitizationNo data availableGerm cell mutagenicityNo data available

Carcinogenicity No component of these products present at levels greater

No data available

than or equal to 0.1% is identified as a carcinogen or

potential carcinogen by IARC, ACGIH or NTP.

Reproductive toxicity

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 degradabilityNo data availableBioaccumulative potentialNo data availableMobility in soilNo data availableResults of PBT & vPvB assessmentNo 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 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 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 III, Section 313.

US State Regulations

California Proposition 65: MARNING: This product can expose you to chemicals including Diisononyl phthalate (DINP), which is known to the State of California to cause cancer. 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.