

**Section 1 Identification**

**Product identifiers**

Product name: Freeman 1050 Part A (Resin)

**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  
Telephone (440) 934-1902

HMIS	
H	3
F	1
R	1
PPE	
Sec. 8	

**24 Hour emergency telephone number: CHEMTREC (800) 424-9300**

**Section 2 Hazards Identification**

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

Acute Toxicity, Inhalation, Category 3  
Respiratory Sensitization, Category 1  
Skin Sensitization, Category 1  
Chronic Aquatic Toxicity, Category 3

**GHS Label elements, including precautionary statements**



Signal word

Danger

**Hazard Statements**

Toxic if inhaled.  
May cause allergy, asthma symptoms, or breathing difficulties if inhaled.  
May cause an allergic skin reaction.  
Harmful to aquatic life with long lasting effects

**Precautionary Statements**

**Prevention**

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

**Response**

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. Contact a poison center or a physician.  
If experiencing respiratory symptoms: Get medical advice/attention.

**Section 2 Hazards Identification** continued

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 and national regulations.

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

None known

**Section 3 Composition/Information on Ingredients**

Ingredient Name	CAS Number	Concentration (%)
3-Isocyanatomethyl-3,5,5-Trimethylcyclohexyl Isocyanate	4098-71-9	3 - 7
4,4'Methylenedicyclohexyl Diisocyanate	5124-30-1	1 - 3

**Section 4 First Aid Measures**

**Description of first aid measures**

**If inhaled**

Move person into fresh air. If not breathing, give artificial respiration.

**In case of skin contact**

Wash off with soap and plenty of water. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.

**In case of eye contact**

Flush eyes with water for at least 15 minutes. Get medical attention immediately.

**If swallowed**

Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

**Most important symptoms and effects, both acute and delayed**

**Inhalation:** No specific data.

**Ingestion:** No specific data.

**Skin contact:** No specific data.

**Eye contact:** No specific data

**Indication of any immediate medical attention and special treatment needed**

**Inhalation:** No specific data.

**Ingestion:** No specific data.

**Skin contact:** No specific data.

**Eye contact:** No specific data.

**Notes to physician:** Symptomatic treatment and supportive therapy as indicated.

**Section 5 Fire-Fighting Measures**

**Extinguishing media**

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Unsuitable extinguishing media: High volume water jet.

**Section 5 Fire-Fighting Measures** continued

**Special hazards arising from the substance or mixture**

Nature of decomposition products not known.

**Hazardous thermal decomposition products**

Carbon dioxide, carbon monoxide

**Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**Further information**

No data available.

**Section 6 Accidental Release Measures**

**Personal precautions, protective equipment and emergency procedures**

Avoid breathing vapors, mist or gas.

For personal protection see section 8.

**Environmental precautions**

Do not let product enter drains.

**Methods and materials for containment and cleaning up**

Dike and contain spill. Wipe up with absorbent material. Keep in suitable, closed containers for disposal.

**Section 7 Handling and Storage**

**Precautions for safe handling**

Do not breathe fumes or vapor. Do not allow material to contact skin.

Provide appropriate exhaust ventilation.

**Conditions for safe storage, including any incompatibilities**

Store at ambient temperatures in closed containers. Do not heat this material above the flash point. Avoid strong acids, strong bases, and strong oxidizing agents.

**Section 8 Exposure Controls/Personal Protection**

**Components with workplace control parameters**

Ingredient	OSHA		ACGIH	
	PEL	STEL	TWA	STEL
3-Isocyanatomethyl-3,5,5-trimethylcyclohexylisocyanate	0.005 ppm	0.02 ppm	.005 ppm	None established
4,4'Methylenedicyclohexyl Diisocyanate	0.01 ppm	None established	.005 ppm	None established

**Exposure controls**

**Appropriate engineering controls**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mists and/or vapors below the recommended exposure limits.

**Personal protective equipment**

**Eye/face protection**

Use safety glasses equipped with side shields.

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

**Skin protection**

**Hand protection**

Use butyl-rubber, nitrile rubber, or other solvent-resistant gloves. Contaminated gloves should be replaced.

**Body protection**

Prevent skin contact when handling material.

**Respiratory protection**

The need for respiratory protection is not anticipated under normal use conditions and with adequate ventilation. If elevated airborne concentrations above applicable workplace exposure levels are anticipated, a NIOSH-approved organic vapor respirator equipped with a dust/mist prefilter should be used.

**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>	Slight
<b>Odor threshold</b>	No data available
<b>pH</b>	No data available
<b>Boiling point</b>	No data available
<b>Flash point (Pensky-Martens)</b>	>149°C (>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>	No data available
<b>Relative density (g/cc)</b>	1.04
<b>Water Solubility</b>	Reacts violently with water
<b>Coefficient: n-octanol/water</b>	No data available
<b>Auto-ignition temperature</b>	No data available
<b>Decomposition temperature</b>	No data available
<b>Viscosity</b>	No data available

**Section 10 Stability and Reactivity**

**Reactivity**

Stable under recommended storage conditions.

**Chemical stability**

No decomposition if stored and applied as directed.

**Possibility of hazardous reactions**

Avoid contact with moisture or other materials that react with isocyanates.

**Section 10 Stability and Reactivity continued**

**Conditions to avoid**

No data available

**Incompatible materials**

No data available

**Hazardous decomposition products**

Thermal oxidative decomposition can produce carbon oxides, nitrogen oxides, and traces of hydrogen cyanide.

**Section 11 Toxicological Information**

**Information on toxicological effects**

<b>Acute oral toxicity</b>	>5,000 mg/kg (calculated)
<b>Acute inhalation toxicity</b>	0.61 mg/l: 4 h (calculated)
<b>Acute dermal toxicity</b>	No data available
<b>Skin corrosion/irritation</b>	No data available
<b>Serious eye damage/eye irritation</b>	No data available
<b>Respiratory or skin sensitization</b>	Skin sensitizer and respiratory sensitizer
<b>Germ cell mutagenicity</b>	No data available
<b>Carcinogenicity</b>	
<b>IARC</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible, or confirmed carcinogen.
<b>ACGIH</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.
<b>NTP</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen.
<b>OSHA</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.
<b>Reproductive toxicity</b>	Not expected to be a hazard
<b>Specific target organ toxicity</b>	
- <b>single exposure</b>	No data available
<b>Specific target organ toxicity</b>	
- <b>repeated exposure</b>	No data available

**Section 12 Ecological Information**

<b>Toxicity</b>	No data available
<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**

Contact a licensed disposal company for detailed recommendations.  
 Follow applicable Federal, State, and local regulations.

### Section 14 Transport Information

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

### Section 15 Regulatory Information

#### US Federal Regulations

SARA 311/312 Codes: No SARA Hazards

SARA 313 Toxic Chemical (40 CFR 372.65):

4,4'-Methylenedicyclohexyl Diisocyanate (CAS# 5124-30-1)

3-Isocyanatomethyl-3,5,5-Trimethylcyclohexyl Isocyanate (CAS # 4098-71-9)

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

Clean Air Act: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCOMI Intermediate or Final VOC's (40 CFR 60.489).

#### US State Regulations

California Proposition 65: This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

Pennsylvania Right to Know List: Oxirane, 2-methyl-, polymer with alpha-hydro-omega-hydroxypoly(oxy-1,4-butanediyl), 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane, 1,1'-methylenebis(4-isocyanatocyclohexane) and oxirane (119185-07-8) and 3-Isocyanatomethyl-3,5,5-trimethylcyclohexylisocyanate (4098-71-9)

#### Canadian Regulations

This product contains the following components listed on the Canadian NDSL. All other components are on the Canadian DSL. Oxirane, methyl-, polymer with .alpha.-hydro-.omega.-hydroxypoly(oxy-1,4-butanediyl), 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethyl-

### 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.

**Freeman 1050 Part B (Hardener)**

**Section 1 Identification**

**Product identifiers**

Product name: Freeman 1050 Part B (Hardener)

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

Identified uses: Component of a polyurethane system

**Details of the supplier of the safety data sheet**

Freeman Manufacturing and Supply Company  
 1101 Moore Road, Avon, OH 44011  
 Telephone (440) 934-1902

HMIS	
H	2
F	1
R	0
PPE	
Sec. 8	

**24 Hour emergency telephone number: CHEMTREC (800) 424-9300**

**Section 2 Hazards Identification**

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

- Acute Oral Toxicity, Category 4
- Skin Sensitization, Category 1
- Germ Cell Mutagenicity, Category 2
- Carcinogenicity, Category 2
- Reproductive Toxicity, Category 1B
- Specific Target Organ Toxicity, single exposure, oral (liver), Category 2
- Specific Target Organ Toxicity, repeated exposure, oral (liver), Category 1
- Specific Target Organ Toxicity, repeated exposure, oral (kidneys), Category 2
- Acute Aquatic Hazard, Category 1
- Chronic Aquatic Hazard, Category 1

**GHS Label elements, including precautionary statements**



Signal word

Danger

**Hazard Statements**

- Harmful if swallowed.
- May cause an allergic skin reaction.
- Suspected of causing cancer.
- May damage fertility or the unborn child.
- Suspected of causing genetic defects.
- May cause damage to organs if swallowed (liver).
- Causes damage to organs through prolonged or repeated exposure if swallowed (liver).
- May causes damage to organs through prolonged or repeated exposure if swallowed (kidneys).
- Very toxic to aquatic life with long lasting effects.

**Section 2 Hazards Identification** continued

**Precautionary Statements**

Prevention

- Do not eat, drink or smoke when using this product.
- Use in a well ventilated area.
- Avoid release to the environment.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Do not breathe vapor.
- Wash hands thoroughly after handling.
- Contaminated work clothing should not be allowed out of the workplace.
- Collect spillage.

Response

- If exposed or concerned: Get medical advice/attention.
- If swallowed, call a poison center or physician, if you feel unwell.
- Rinse mouth.
- If on skin: Wash with plenty of soap and water. Wash contaminated clothing before reuse.
- If skin irritation or rash occurs, get medical attention.

Storage

Store in a well-ventilated place. Keep cool.

Disposal

Dispose of contents and container in accordance with all local, regional, national and international regulations.

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

None known

**Section 3 Composition/Information on Ingredients**

Ingredient Name	CAS Number	Concentration (%)
Butyl benzyl phthalate	85-68-7	60 - 100
Diethyl methylene dianiline	19900-65-3	13 - 30
Dibutyl phthalate	84-74-2	0.1 - 1

**Section 4 First Aid Measures**

**Description of first aid measures**

**If inhaled**

Move person into fresh air. If not breathing, give artificial respiration.

**In case of skin contact**

Wash off with soap and plenty of water. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention.

**In case of eye contact**

Flush eyes with water for at least 15 minutes. Get medical attention.

**If swallowed**

Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.



**Section 4 First Aid Measures** continued

**Most important symptoms and effects, both acute and delayed**

**Eye contact:** No specific data

**Inhalation:** No specific data

**Skin contact:** May cause an allergic skin reaction

**Ingestion:** Harmful if swallowed

**Indication of any immediate medical attention and special treatment needed**

**Inhalation:** No specific data

**Ingestion:** No specific data

**Skin contact:** Irritation, redness

**Eye contact:** No specific data

**Notes to physician:** Symptomatic treatment and supportive therapy as indicated.

**Section 5 Fire-Fighting Measures**

**Extinguishing media**

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Unsuitable extinguishing media: High volume water jet.

**Special hazards arising from the substance or mixture**

Do not allow run-off from firefighting to enter drains or water courses.

**Hazardous thermal decomposition products**

Carbon dioxide, carbon monoxide

**Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**Further information**

Collect contaminated fire extinguishing water separately.

Do not discharge into drains. Dispose of in accordance with local regulations.

**Section 6 Accidental Release Measures**

**Personal precautions, protective equipment and emergency procedures**

Avoid breathing vapors, mist or gas.

For personal protection see section 8.

**Environmental precautions**

Do not let product enter drains. If product contaminates rivers and lakes or drains inform respective authorities.

**Methods and materials for containment and cleaning up**

Dike and contain spill. Soak up with inert absorbent material (e.g. sand, silica gel, sawdust).

Keep in suitable, closed containers for disposal.

**Section 7 Handling and Storage**

**Precautions for safe handling**

Do not breathe fumes or vapor. Do not allow material to contact skin. See section 8 for personal protective equipment. Provide appropriate exhaust ventilation.

Freeman 1050 Part B (Hardener)

Section 7 Handling and Storage continued

**Conditions for safe storage, including any incompatibilities**

Store at ambient temperatures in closed containers. Do not heat this material above the flash point. No chemical incompatibilities.

Section 8 Exposure Controls/Personal Protection

**Components with workplace control parameters**

Ingredient	OSHA		ACGIH	
	PEL	STEL	TWA	STEL
Dibutyl phthalate	5 mg/m <sup>3</sup>	None established	5 mg/m <sup>3</sup>	None established

**Exposure controls**

**Appropriate engineering controls**

If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Personal protective equipment**

**Eye/face protection**

Use safety goggles.

**Skin protection**

**Hand protection**

Use impervious gloves. Discuss suitability with manufacturer of gloves. Contaminated gloves should be replaced.

**Body protection**

Prevent skin contact when handling material. Wear impervious clothing.

**Respiratory protection**

The need for respiratory protection is not anticipated under normal use conditions and with adequate ventilation. If elevated airborne concentrations above applicable workplace exposure levels are anticipated, a NIOSH-approved organic vapor respirator equipped with a dust/mist prefilter should be used.

**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>	Pink liquid
<b>Odor</b>	No data available
<b>Odor Threshold</b>	No data available
<b>pH</b>	No data available
<b>VOC</b>	No data available

**Section 9 Physical and Chemical Properties** continued

<b>Freezing point</b>	No data available
<b>Boiling point</b>	No data available
<b>Flash point (Pensky-Martens)</b>	>93°C (>200°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>	No data available
<b>Relative density (g/cc)</b>	1.1
<b>Water solubility</b>	Slightly soluble
<b>Coefficient: n-octanol/ water</b>	No data available
<b>Auto-ignition temperature</b>	No data available
<b>Decomposition temperature</b>	No data available
<b>Viscosity</b>	2,000 cP at room temperature
<b>Explosive Properties</b>	None
<b>Oxidizing Properties</b>	None
<b>% Volatile</b>	5-10%

**Section 10 Stability and Reactivity**

**Reactivity**

Stable under recommended storage conditions.

**Chemical stability**

No decomposition if stored and applied as directed.

**Possibility of hazardous reactions**

None known.

**Conditions to avoid**

Heat and open flames

**Incompatible materials**

None known.

**Hazardous decomposition products**

Thermal oxidative decomposition can produce carbon oxides.

**Section 11 Toxicological Information**

**Information on toxicological effects**

<b>Acute oral toxicity</b>	No data available
<b>Acute inhalation toxicity</b>	No data available
<b>Acute dermal toxicity</b>	No data available
<b>Skin corrosion/irritation</b>	Non-irritating to the skin.
<b>Serious eye damage/eye irritation</b>	Non-irritating to the eyes.
<b>Respiratory or skin sensitization</b>	May cause skin sensitization
<b>Germ cell mutagenicity</b>	May be genotoxic (4,4'-methylenebis(2-ethylaniline))

**Freeman 1050 Part B (Hardener)**

**Section 11 Toxicological Information** continued

**Carcinogenicity**

- IARC** Butyl benzyl phthalate is considered group 3, not classifiable as a human carcinogen.
- ACGIH** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.
- NTP** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen.
- OSHA** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.

- Reproductive toxicity** Dibutyl phthalate has tested positive for both reproductive toxicity and causing birth defects (animal data only)
- STOT - single exposure** (Specific Target Organ Toxicity) Liver
- STOT - repeated exposure** (Specific Target Organ Toxicity) Liver and Kidneys
- Aspiration toxicity** 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**

Contact a licensed disposal company for detailed recommendations.  
 Follow applicable Federal, State, and local regulations.

**Section 14 Transport Information**

- DOT: Shipping Name:** Environmentally hazardous substance, liquid, n.o.s. (Butyl Benzyl Phthalate, Diethyl Methylene Dianiline)
- Hazard Class:** 9
- ID No.:** UN 3082
- Packing Group:** III
- Label:** Marine Pollutant
  
- IATA: Shipping Name:** Environmentally hazardous substance, liquid, n.o.s. (Butyl Benzyl Phthalate, Diethyl Methylene Dianiline)
- Hazard Class:** 9
- ID No.:** UN 3082
- Packing Group:** III
- Label:** Marine Pollutant

Freeman 1050 Part B (Hardener)

**Section 14 Transport Information** continued

**IMDG: Shipping Name:** Environmentally hazardous substance, liquid, n.o.s. (Butyl Benzyl Phthalate, Diethyl Methylene Dianiline)

**Hazard Class:** 9

**ID No.:** UN 3082

**Packing Group:** III

**Label:** Marine Pollutant

**Note:** Under 49 CFR 171.4 (c) NONBULK shipments of marine pollutants are not regulated for transport by motor vehicles, rail cars or aircraft. NONBULK shipments of marine pollutants are regulated when transported by vessel (ship).

**Section 15 Regulatory Information**

**US Federal Regulations**

SARA 311/312 Codes: Acute Health Hazard, Chronic Health Hazard

SARA 313 Toxic Chemical (40 CFR 372.65): No ingredients listed

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

Clean Air Act – Ozone Depleting Substances (ODS): This product does not contain nor is it manufactured with ozone depleting substances.

**US State Regulations**

California Proposition 65: ⚠️ **WARNING:** This product can expose you to chemicals including butyl benzyl phthalate, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**Canadian Regulations**

CEPA DSL: All components are listed or exempted.

**Section 16 Other Information**

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