



Brick in the Yard  
 Mold Supply  
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 (214)575-5600  
 521 Sterling Dr  
 Richardson, TX 75081

# Rigid Casting Foam Part A

## Safety Data Sheet

According to Federal Register/Vol. 77, No.58/Monday, March 26, 2012/Rules and Regulations  
 Revision Date: 9/08/2015 Date of issue: 09/08/2015

### SECTION 1: IDENTIFICATION

#### 1.1. Product Identifier

**Product Form:** Mixture

**Product Name:** Rigid Casting Foam B Component (polymeric MDI)

#### 1.2. Intended Use of the Product

Use of the substance/mixture: Component of a two-part polyurethane system.

#### 1.3. Name, Address, and Telephone of the Responsible Party

Company  
 Brick in the Yard  
 521 Sterling Dr  
 Richardson, TX 75081  
 (214) 575-5600

#### 1.4 Emergency Telephone Number

**Emergency Number** : Chemtrec (800) 424-9300 or (703)527-3887

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the Substance or Mixture

**Classification (GHS-US)**



**Signal Word (GHS-US)**

**Hazard Statements (GHS-US)**

- : Danger
- : H315 - Causes skin irritation.
- H317 - May cause an allergic skin reaction.
- H320 - Causes eye irritation
- H332 - Harmful if inhaled
- H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H335 - May cause respiratory irritation.
- H351 - Suspected of causing cancer.
- H372 - Causes damage to organs through prolonged or repeated exposure.
- : P201 - Obtain special instructions before use.
- P202 - Do not handle until all safety precautions have been read and understood.
- P260 - Do not breathe vapors, mist, or spray.
- P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
- P270 - Do not eat, drink or smoke when using this product.
- P271 - Use only outdoors or in a well-ventilated area.
- P272 - Contaminated work clothing must not be allowed out of the workplace.
- P280 - Wear protective gloves, protective clothing, and eye protection.
- P284 - [In case of inadequate ventilation] wear respiratory protection.
- P302±P352 - If on skin: Wash with plenty of water.
- P304±P340 - If inhaled: Remove person to fresh air and keep at rest in a position comfortable for breathing.
- P305±P351±P338 - If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308±P313 - If exposed or concerned: Get medical advice/attention.
- P362±P364 - Take off contaminated clothing and wash it before reuse.
- P405 - Store locked up.
- P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

#### 2.3. Other Hazards

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

#### 2.4. Unknown Acute Toxicity (GHS-US)

No data available.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.1. Substance**

Not applicable.

**3.2. Mixture**

Name	Product Identifier	%	Classification (GHS-US)
Isocyanic acid, polymethylenepolyphenylene ester	(CAS No) 9016-87-9	60 - 100	Acute Tox. 4 (inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2B, H320 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335 STOT RE 1, H372
4,4'-Methylenediphenyle diisocyanate	(CAS No) 7732-18-5	50 - 80	Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2B, H320 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373

**SECTION 4: FIRST AID MEASURES****4.1. Description of First Aid Measures**

**First-aid Measures General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**First-aid Measures After Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

**First-aid Measures After Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.

**First-aid Measures After Skin Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

**Symptoms/Injuries After Eye Contact:** May cause moderate irritation, including burning sensation, tearing, redness or swelling.

Chronic Symptoms: Suspected of causing cancer. Causes damage to organs through prolonged or repeated exposure.

**4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed**

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

**SECTION 5: FIRE-FIGHTING MEASURES****5.1. Extinguishing Media**

**Suitable Extinguishing Media:** Water spray, dry chemical, foam, carbon dioxide.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

**5.2. Special Hazards Arising From the Substance or Mixture**

**Fire Hazard:** Not considered flammable but may burn at high temperatures.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Hazardous reactions will not occur under normal conditions.

**5.3. Advice for Firefighters**

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1. Personal Precautions, Protective Equipment and Emergency Procedures**

**General Measures:** Do not breathe vapor, mist or spray. Do not get in eyes, on skin, or on clothing.

### 6.1.1. For Non-emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

### 6.1.2 For Emergency Responders

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

## 6.2. Environmental Precautions

Prevent entry to sewers and public water.

## 6.3. Methods and Material for Containment and Cleaning Up

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

## 6.4. Reference to Other Sections

See Heading 8. Exposure controls and personal protection. See Section 13, Disposal Considerations.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

**Precautions for Safe Handling:** Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking, and when leaving work. Avoid contact with eyes, skin and clothing. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures.

### 7.2 Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Keep container closed when not in use. Store in a dry, cool place. Keep/store away from direct sunlight, extremely high or low temperatures and incompatible materials.

### 7.3 Specific End Use(s)

Component of a Polyurethane System.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (rel), or OSHA (PEL).

#### 4,4'-Methylenediphenyl diisocyanate (101-68-8)

USA ACGIH	ACGIH TWA (ppm)	0.005 ppm
USA NIOSH	NIOSH REL (TWA)(mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA)(ppm)	0.005 ppm
USA NIOSH	NIOSH REL (TWA)(mg/m <sup>3</sup> )	0.2 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA)(ppm)	0.0020 ppm
USA IDLH	US IDLH (mg/m <sup>3</sup> )	75 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (Ceiling) (mg/m <sup>3</sup> )	0.2 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (Ceiling) (mmp)	0.02 ppm

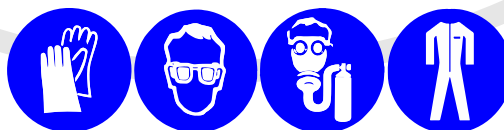
### 8.2. Exposure Controls

#### Appropriate Engineering Controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, Especially in confined areas. Ensure all national/local regulations are observed.

#### Personal Protective Equipment

: Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.



#### Material for Protective Clothing

: Chemically resistant materials and fabrics.

#### Hand Protection

: Wear protective gloves.

#### Eye Protection

: Chemical safety goggles.

#### Skin and Body Protection

: Wear suitable protective clothing.

<b>Respiratory Protection</b>	: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.
<b>Other Information</b>	: When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

<b>Physical State</b>	: Liquid
<b>Appearance</b>	: No data available
<b>Odor</b>	: No data available
<b>Odor Threshold</b>	: No data available
<b>pH</b>	: No data available
<b>Evaporation Rate</b>	: No data available
<b>Melting Point</b>	: No data available
<b>Freezing Point</b>	: No data available
<b>Boiling Point</b>	: No data available
<b>Flash Point</b>	: No data available
<b>Auto-ignition Temperature</b>	: No data available
<b>Decomposition Temperature</b>	: No data available
<b>Flammability (solid, gas)</b>	: No data available
<b>Vapor pressure</b>	: No data available
<b>Relative vapor Density at 20°C</b>	: No data available
<b>Relative Density</b>	: No data available
<b>Solubility</b>	: No data available
<b>Partition Coefficient: N-Octanol/Water</b>	: No data available
<b>Viscosity</b>	: No data available

9.2. **Other Information** No additional information available

## SECTION 10: STABILITY AND REACTIVITY

- 10.1. **Reactivity:** Hazardous reactions will not occur under normal conditions.  
 10.2. **Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).  
 10.3. **Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.  
 10.4. **Conditions to Avoid:** Direct sunlight, extremely high or low temperatures, and incompatible materials.  
 10.5. **Incompatible Materials:** Strong acids, strong bases, strong oxidizers.  
 10.6. **Hazardous Decomposition Products:** Not available.

## SECTION 10: STABILITY AND REACTIVITY

### 11.1. Information On Toxicological Effects

**Acute Toxicity:** Inhalation: Harmful if inhaled.

<b>Isocyanic acid, polymethylenepolyphenylene (9016-87-9)</b>	
<b>LD50 Oral Rat</b>	49000 mg/kg
<b>LD50 Dermal Rat</b>	>9400 mg/kg
<b>LC50 Inhalation Rat</b>	490 mg/m <sup>3</sup> (Exposure time: 4h)
<b>4,4'-Methylenediphenyl diisocyanate (101-68-8)</b>	
<b>LD50 Oral Rat</b>	31600 mg/kg
<b>LD50 Dermal Rat</b>	>9400 mg/kg
<b>LC50 Inhalation Rat</b>	369 mg/m <sup>3</sup> (Exposure time: 4h)

**Skin Corrosion/Irritation:** Causes skin irritation.

**Serious Eye Damage/Irritation:** Causes eye irritation.

**Respiratory or Skin Sensitization:** May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

**Germ Cell Mutagenicity:** Not classified.

**Carcinogenicity:** Suspected of causing cancer.

<b>Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)</b>	
<b>IARC group</b>	3
<b>4,4'-Methylenediphenyl diisocyanate (101-68-8)</b>	
<b>IARC group</b>	3

**Reproductive Toxicity: Not classified****Specific Target Organ Toxicity (Single Exposure):** May cause respiratory irritation.**Specific Target Organ Toxicity (Repeated Exposure):** Cause damage to organs through prolonged or repeated exposure.**Aspiration Hazard:** Not classified.**Symptoms/Injuries After Inhalation:** Irritation of the respiratory tract and the other mucous membranes. Exposure may produce cough mucous secretions, shortness of breath, chest tightness or other symptoms indicative of an allergic/sensitization reaction skin reaction.**Symptoms injuries After Skin Contact:** Redness, pain swelling, itching, burning, dryness, and dermatitis. May cause an allergic skin reaction.**Symptoms/Injuries After Eye Contact:** May cause moderate irritation, including burning sensation, tearing, redness or swelling.**Symptoms/Injuries After Ingestion:** Ingestion may cause adverse effects.**Chronic Symptoms:** Suspected of causing cancer. Causes damage to organs through prolonged or repeated exposure.**SECTION 12: ECOLOGICAL INFORMATION****12.1. Toxicity****Ecology - General:** Not classified.**12.2. Persistence and Degradability****Rigid Foam A Component**

<b>Persistence and Degradability</b>	Not established.
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**12.3. Bioaccumulative Potential****Rigid Foam A Component**

<b>Bioaccumulative Potential</b>	Not established.
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**12.4. Mobility in Soil** No additional information available.**12.5. Other Adverse Effects****Other Information:** Avoid release to the environment.**SECTION 13: DISPOSAL CONSIDERATIONS****13.1. Waste treatment methods****Waste Disposal Recommendations:** Dispose of contents/container in accordance with local, regional, national, and international regulations.**Additional Information:** Container may remain hazardous when empty. Continue to observe all precautions.**Ecology - Waste Materials:** Avoid release to the environment.**SECTION 14: TRANSPORT INFORMATION****14.1. In Accordance with DOT** Not regulated for transport**14.2. In Accordance with IMDG** Not regulated for transport**14.3. In Accordance with IATA** Not regulated for transport**SECTION 15: REGULATORY INFORMATION****15.1. US Federal Regulations****Rigid Foam A Component**

<b>SARA Section 311/312 Hazard Classes</b>	Immediate (acute) health hazard Delayed (chronic) health hazard
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**Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on United States SARA Section 313

<b>SARA Section 313 - Emission Reporting</b>	1.0%
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**4,4'-Methylenediphenyl diisocyanate (101-68-8)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on United States SARA Section 313

<b>SARA Section 313 - Emission Reporting</b>	1.0%
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**15.2. US State Regulations****Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)**

U.S - New Jersey - Right to Know Hazardous Substance List

**4,4'-Methylenediphenyl diisocyanate (101-68-8)**

U.S. - Massachusetts - Right to Know List

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

U.S. - Pennsylvania - RTK (Right to Know) - List



**SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION**

**Revision Date** : 09/08/2015  
**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

**GHS Full Text Phrases:**

Acute Tox. 4 (inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Inhalation:dust, mist)	Acute toxicity (inhalation:dust,mist) Category 4
Carc. 2	Carcinogenicity Category 2
Eye Irrit. 2B	Serious eye damage/eye irritation Category 2B
Resp. Sens. 1	Respiratory sensitization Category 1
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT RE 3	Specific target organ toxicity (repeated exposure) Category 3
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H320	Causes eye irritation
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H351	Suspected of causing cancer
H372	Causes damage to organs through prolonged or repeated exposure
H373	May cause damage to organs through prolonged or repeated exposure

**HMIS III Rating****Health:** 2 Moderate Hazard**Flammability:** 1 Slight Hazard**Physical:** 1 Slight Hazard

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

SDS US (GHS HazCom)