



Product Name:

Por-A-Mold, S-333 Thixotropic Curative

I. Basic Information:

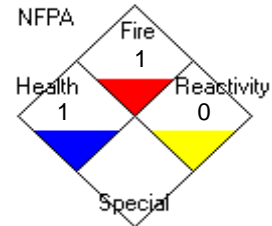
Supplier: PUMA Polymers

Address: 2003 Curtain Pole Rd, P.O. Box 5413

City, ST Zip: Chattanooga, TN 37406

Emergency Phone: 423-697-0499

Transportation Emergency Phone: Chem-trec 1-800-424-9300



Chemical State: [X] Liquid [ ] Gas [ ] Solid Chemical Type: [ ] Pure [X] Mixture

II. Ingredients:

Table with 10 columns: CAS No., Chemical Name, % Range, EHS, NTP, IARC, SUB Z, SARA 313, OSHA PEL, ACGIH TLV, Other Limits. Rows include Calcined Kaolin, Mercury, Poly[oxy(methyl-1,2-ethanediy)], .alpha.-hydro-.omega.-hydroxy-, Light Paraffinic Petroleum Oil Solvent Extract, and Amorphous Fumed Silica.

III. Hazardous Identification:

Hazard Category: ACUTE CHRONIC

Hazardous Identification Information:

Warning!

Pigmented, viscous liquid with a slight odor.

Contains organomercury catalyst.

May cause eye and skin irritation.

IV. First Aid Measures:

Route(s) of Entry: Ingestion, Skin and Eye contact.

Health Hazards (Acute and Chronic):

Acute (Short-Term)

Repeated contact may cause skin and eye irritation.

Chronic (Delayed)

Prolonged skin contact may produce skin sensitivity and under extreme conditions, skin cancer.

Signs and Symptoms:

Skin and eye irritation.

Medical Conditions Generally Aggravated by Exposure: Repeated or prolonged skin contact may cause skin sensitization in sus

Emergency and First Aid Procedures:





**Product Name:**

## *Por-A-Mold, S-333 Thixotropic Curative*

SKIN CONTACT: Remove contaminated clothing and wash affected area with isopropyl alcohol followed by soap and water.

EYE CONTACT: Flush eyes with water for at least 15 minutes and contact a physician.

INGESTION: Do NOT induce vomiting. Take 1-2 glasses of water and contact a physician. Do not give anything by mouth to an unconscious person.

INHALATION: Remove person to fresh air. If person is not breathing give mouth-to-mouth resuscitation and contact a physician.

### **Other Health Warnings**

This product contains petroleum oils similar to the ones categorized by IARC as causing skin cancer in mice after prolonged and repeated contact. Any potential hazard can be minimized by using the recommended protective equipment.

### ***V. Fire Fighting Measures:***

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<b>Flash Point:</b> >330°F	<b>Lower Explosive Limit:</b> NE	<b>Upper Explosive Limit:</b> NE
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#### **Fire Extinguishing Media:**

Foam, water fog, carbon dioxide or dry chemical extinguishers.

#### **Special Fire Fighting Procedures:**

Firefighters should wear a self-contained breathing apparatus and protective clothing to guard against incompletely combusted carbon products.

#### **Unusual Fire and Explosion:**

None known

### ***VI. Accidental Release Measures:***

#### **Steps to be Taken in Case Material is Released or Spilled:**

Cover liquid with an absorbent material (sawdust, vermiculite or wet sand). After the material is absorbed scoop up and place in containers for disposal.

### ***VII. Handling and Storage:***

#### **Precautions to be Taken:**

Store in a cool dry place in tightly sealed containers. Protect from heat and moisture contamination.

#### **Other Precautions:**

This product contains petroleum oils similar to the ones categorized by IARC as causing skin cancer in mice after prolonged and repeated contact. Any potential hazard can be minimized by using the recommended safety equipment.

### ***VIII. Exposure Controls/Personal Protection:***

#### **Ventilation Requirements:**

Local Exhaust: Use in a ventilated area.

Mechanical (General): Recommended.

#### **Personal Protective Equipment:**

RESPIRATORY PROTECTION: None needed at normal temperatures. Use a self-contained breathing apparatus under emergency conditions.

PROTECTIVE GLOVES: Impervious rubber gloves.

EYE PROTECTION: Wear safety glasses or goggles.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: An apron or suitable clothing to prevent skin contact.





**Product Name:**

***Por-A-Mold, S-333 Thixotropic Curative***

***IX. Physical and Chemical Properties:***

**Boiling Point:** >285°F      **Melting Point:** NA      **Evaporation Rate:** NE  
**Vapor Pressure (mm Hg.):** NE      **Vapor Density (AIR = 1):** >1  
**Solubility In Water:** Slight, <1%  
**Appearance and Odor:** Viscous liquid; slight odor  
**Other Information:** VOLATILITY @75°F: Very low  
PERCENT VOLATILE BY VOLUME(%): Negligible  
SPECIFIC GRAVITY: 1.36

***X. Stability and Reactivity:***

**Stability:**  
Stable  
**Incompatibility (Materials to Avoid):**  
Strong oxidizers  
**Decomposition/By Products:**  
Incompletely burned carbon products, carbon dioxide and carbon monoxide.  
**Hazardous Polymerization:**  
Will not occur

***XI. Toxicological Information:***

None Available

***XII. Ecological Information:***

None Available

***XIII. Disposal Considerations:***

Waste must be disposed of in accordance with federal, state and local environmental regulations. Incinerate or bury in a licensed facility. Containers may be disposed of or reclaimed in a routine manner.

***XIV. Transport Information:***

Not regulated by DOT.

***XV. Regulatory Information:***

TSCA Inventory Status: This product, or its components, are listed on, or are exempt from the Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

SARA 313 INFORMATION: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372:

CHEMICAL NAME	CAS NUMBER	CONCENTRATION
Mercury, (neodecanoato-.kappa.O)phenyl-	26545-49-3	< 0.6%

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:  
An immediate health hazard; A delayed health hazard

***XVI. Other Information:***

In this document the following abbreviations were used:  
NA: Not Applicable      NE: Not Established





# Material Safety Data Sheet No. 040902

Product Name:

## Por-A-Mold, S-333 Thixotropic Prepolymer

### I. Basic Information:

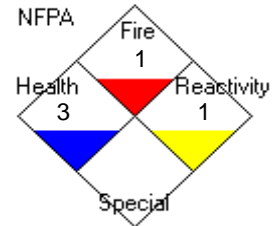
Supplier: PUMA Polymers

Address: 2003 Curtain Pole Rd, P.O. Box 5413

City, ST Zip: Chattanooga, TN 37406

Emergency Phone: 423-697-0499

Transportation Emergency Phone: Chem-trec 1-800-424-9300



Chemical State:  Liquid  Gas  Solid Chemical Type:  Pure  Mixture

### II. Ingredients:

CAS No.	Chemical Name	% Range	EHS	NTP	IARC	SUB Z	SARA 313	OSHA PEL	ACGIH TLV	Other Limits
59016352	1,3-Diisocyanato methylbenzene, .alpha.-hydro-.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)], 2,2'-oxy bis(ethanol)polymer	10-15								
63449398	Paraffin waxes and Hydrocarbon waxes, chloro	50-60								
112945525	Amorphous Fumed Silica	2-3						NE	NE	NE
60209076	Isocyanic acid, polymethylenepolyphenylene ester, polymer with 1,3-diisocyanatomethylbenzene and .alpha.-hydro-.omega.-hydroxypoly[oxy(methyl-	10-15								
26471625	Toluenediisocyanate (mixed isomers)	<1		X			X	0.02 ppm	0.005 ppm	NE
6474252	Distillates, petroleum, hydrotreated heavy naphthenic	10-15								

### III. Hazardous Identification:

Hazard Category: ACUTE CHRONIC REACTIVE

#### Hazardous Identification Information:

Warning!

Brown liquid with a characteristic odor.

Contains Toluenediisocyanate (TDI).

Inhalation of vapors may cause respiratory tract irritation. Contact with skin and eyes may cause irritation.

### IV. First Aid Measures:

Route(s) of Entry: Inhalation, Ingestion, Skin and Eye contact.

#### Health Hazards (Acute and Chronic):

Acute (Short-Term)

Inhalation of vapors may cause irritation of the mucous membranes in the respiratory tract, running nose and sore throat. Contact may cause slight irritation of the skin and eyes (tearing).

Chronic (Delayed)

Repeated or prolonged inhalation of TDI vapors above the TLV of 0.02 ppm can cause immediate or delayed respiratory sensitization and asthma-like conditions. Prolonged skin contact can cause reddening, swelling or skin sensitization.

#### Signs and Symptoms:





**Product Name:**

**Por-A-Mold, S-333 Thixotropic Prepolymer**

Skin, eye and respiratory tract irritation.

**Medical Conditions Generally Aggravated by Exposure:** Prolonged skin contact can cause reddening, swelling or skin sensitization.

**Emergency and First Aid Procedures:**

**SKIN CONTACT:** Remove contaminated clothing and wash affected area with isopropyl alcohol followed by soap and water.

**EYE CONTACT:** Flush eyes with water for at least 15 minutes and contact a physician.

**INGESTION:** Do NOT induce vomiting and contact a physician. Do NOT give anything by mouth to an unconscious person.

**INHALATION:** Remove person to fresh air. If person is not breathing give mouth-to-mouth resuscitation and contact a physician.

**Other Health Warnings**

In an NTP study, TDI was carcinogenic when given orally to rats and mice at maximum tolerated doses. TDI was not carcinogenic to rats in a two-year inhalation study.

**V. Fire Fighting Measures:**

**Flash Point:** 440°F      **Lower Explosive Limit:** NE      **Upper Explosive Limit:** NE

**Fire Extinguishing Media:**

Foam, water fog, carbon dioxide or dry chemical extinguishers.

**Special Fire Fighting Procedures:**

Firefighters should wear a self-contained breathing apparatus and protective clothing.

**Unusual Fire and Explosion:**

Use cold water to cool fire exposed containers.

**VI. Accidental Release Measures:**

**Steps to be Taken in Case Material is Released or Spilled:**

Cover liquid with an absorbent material (sawdust, vermiculite or wet sand). After the material is absorbed scoop up and place in open containers. Treat material with the prepared decontamination solution and leave the container open in a well ventilated area for 48 hours. Spill area should also be decontaminated with the following decontamination solution: 90% water, 2% detergent and 8% concentrated ammonia or sodium carbonate.

**VII. Handling and Storage:**

**Precautions to be Taken:**

Store in tightly closed containers at 80-95°F in a dry ventilated area away from sources of heat, moisture and incompatibles. Do NOT reseal containers if water contamination is suspected.

**Other Precautions:**

Avoid contact with skin and eyes. Avoid breathing vapors.

**VIII. Exposure Controls/Personal Protection:**

**Ventilation Requirements:**

**Local Exhaust:** Provide mechanical (general) and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

**Personal Protective Equipment:**

**RESPIRATORY PROTECTION:** None needed at normal temperatures. Use a self-contained breathing apparatus for high concentrations and under emergency conditions.

**PROTECTIVE GLOVES:** Impervious rubber gloves.

**EYE PROTECTION:** Wear safety glasses or goggles.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** An apron or suitable clothing to prevent skin contact.





**Product Name:**

**Por-A-Mold, S-333 Thixotropic Prepolymer**

**IX. Physical and Chemical Properties:**

**Boiling Point:** >400°F      **Melting Point:** NA      **Evaporation Rate:** <NA  
**Vapor Pressure (mm Hg.):** NE      **Vapor Density (AIR = 1):** >1  
**Solubility In Water:** Reacts slowly to liberate CO2 gas  
**Appearance and Odor:** Brown liquid; characteristic odor  
**Other Information:** VOLATILITY @75°F: Very low  
PERCENT VOLATILE BY VOLUME(%): Negligible  
SPECIFIC GRAVITY: 1.18

**X. Stability and Reactivity:**

**Stability:**

Stable

**Incompatibility (Materials to Avoid):**

Water, bases, oxidizers and amines.

**Decomposition/By Products:**

Carbon dioxide, carbon monoxide, TDI vapors, MDI vapors, traces of HCN and oxides of nitrogen.

**Hazardous Polymerization:**

May occur at temperatures above 400°F.

**XI. Toxicological Information:**

None Available

**XII. Ecological Information:**

None Available

**XIII. Disposal Considerations:**

Neutralized waste must be disposed of in accordance with federal, state and local environmental control regulations. Incineration is the preferred method.

**XIV. Transport Information:**

Toluene Diisocyanate's RQ - 100 lbs  
This product's RQ (with 1 % TDI) consequently - 10000 lbs  
In quantity in one package equals or exceeds RQ (CFR 49 171.8):  
Shipping Name: Toxic liquid, organic n.o.s Contains Toluene Diisocyanate (TDI)  
Hazard Class: 6.1  
Packing Group: III  
UN 2810  
Otherwise: Not regulated by DOT.

**XV. Regulatory Information:**

TSCA Inventoty Status: This product, or its components, are listed on, or are exempt from the Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

Toluene Diisocyanate CAS# 26471-62-5 contains 2,4 Toluene Diisocyanate CAS# 584-84-9 and 2,6 Toluene Diisocyanate CAS# 91-08-7.

SARA 313 INFORMATION: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372:

CHEMICAL NAME	CAS NUMBER	CONCENTRATION
2,4 Toluene Diisocyanate	584-84-9	< 0.8%
2,6 Toluene Diisocyanate	91-08-7	< 0.2%





**Material Safety Data Sheet No. 040902**

**Product Name:**

Page 4 of 4

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04/04/2008

***Por-A-Mold, S-333 Thixotropic Prepolymer***

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

An immediate health hazard; A delayed health hazard; A reactive hazard

***XVI. Other Information:***

In this document the following abbreviations were used:

NA: Not Applicable NE: Not Established

