



Material Safety Data Sheet

No. 161911

Product Name:

Por-A-Mold SX50-1, Curative

I. Basic Information:

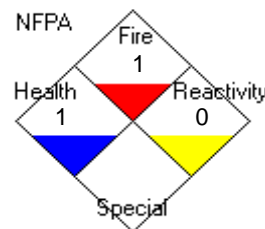
Supplier: PUMA Polymers

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: 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
68479981	Diethyltoluenediamine	2-4						NE	NE	NE
9082002	Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1)	85-95						NE	NE	NE
26545493	Mercury, (neodecanoato-kappa.O)phenyl-	<1					X	0.01 mg/m3	NE	NE

III. Hazardous Identification:

Hazard Category: ACUTE CHRONIC

Hazardous Identification Information:

Warning!

Pigmented liquid.

Contains organomercury catalyst.

Repeated skin and eye contact 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)

Contact may cause skin and eye irritation.

Chronic (Delayed)

Repeated or prolonged skin contact may produce skin sensitivity in susceptible individuals. Long-term over exposure to high concentrations of vapors may affect respiratory function in some individuals.

Signs and Symptoms:

Contact may cause skin and eye irritation.

Medical Conditions Generally Aggravated by Exposure: None known

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: 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.





Product Name:

Por-A-Mold SX50-1, Curative

Other Health Warnings

This material contains a mercury catalyst below the reportable level required by OSHA. However, due to the chronic toxicity of organomercury compounds, careful handling of this material is required.

A two year feeding study in rats showed DETDA caused effects in the pancreas, liver, thyroid and eyes. An increase in the number of tumors in the liver and thyroid of male rats and in the liver and possibly the mammary glands of female rats was observed. In rare instances, sensitization to DETDA curatives have been reported to occur in humans.

V. Fire Fighting Measures:

Flash Point: >300°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 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, ventilated area in tightly sealed containers. Protect from heat and moisture contamination.

Other Precautions:

Avoid skin and eye contact.

VIII. Exposure Controls/Personal Protection:

Ventilation Requirements:

Local Exhaust: Provide mechanical (general) and/or local exhaust ventilation to control airborne levels.

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.

IX. Physical and Chemical Properties:

Boiling Point: NE **Melting Point:** NA **Evaporation Rate:** NE

Vapor Pressure (mm Hg.): NE **Vapor Density (AIR = 1):** >1

Solubility In Water: Slight, <1%

Appearance and Odor: Pigmented liquid

Other Information: VOLATILITY @75°F: Very low PERCENT VOLATILE BY VOLUME(%): Negligible

SPECIFIC GRAVITY: 1.03





Product Name:

Por-A-Mold SX50-1, Curative

X. Stability and Reactivity:

Stability:

Stable

Incompatibility (Materials to Avoid):

Strong oxidizers

Decomposition/By Products:

Incompletely burned carbon products, carbon monoxide and carbon dioxide.

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.

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
Phenylmercury neodecanoate	26545-49-3	< 1%

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





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Product Name:

Por-A-Mold SX50-1, Prepolymer

I. Basic Information:

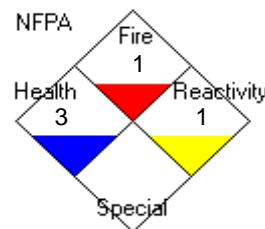
Supplier: PUMA Polymers

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
64742058	Light Paraffinic Petroleum Oil Solvent Extract	45-55								
9057914	Poly(oxy(methyl-2-ethane)), toluene diisocyanate polymer	40-50								
26471625	Toluenediisocyanate (mixed isomers)	< 3		X			X	0.02 ppm	0.005 ppm	NE

III. Hazardous Identification:

Hazard Category: ACUTE CHRONIC REACTIVE

Hazardous Identification Information:

Warning!

Amber liquid with a characteristic odor.

Contains Toluene Diisocyanate (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)

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

Chronic (Delayed)

Repeated or prolonged inhalation of TDI vapors above the TLV of 0.02 ppm can cause immediate or delayed respiratory sensitization leading to asthma-like conditions and difficulty in breathing. Repeated or prolonged skin and eye contact can cause reddening, swelling or skin sensitization in susceptible individuals.

Signs and Symptoms:

Skin, eye and respiratory tract irritation.

Medical Conditions Generally Aggravated by Exposure: Pre-existing lung diseases or conditions including asthma.

Emergency and First Aid Procedures:





Product Name:

Por-A-Mold SX50-1, Prepolymer

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. 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 (a component of this product) 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: >300°F **Lower Explosive Limit:** NE **Upper Explosive Limit:** NE

Fire Extinguishing Media:

Foam, water fog, carbon dioxide or dry chemical extinguishers. If water is used, it should be used in very large quantities.

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:

Contamination of isocyanates with water releases carbon dioxide which may result in a dangerous amount of pressure build-up in closed containers. Do NOT reseal contaminated containers. Use cold water to cool fire exposed containers.

VI. Accidental Release Measures:

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

Wear protective equipment. Ventilate spill area. 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 in a cool, dry place. Protect from heat and moisture contamination. Do not reseal containers if contamination is suspected.

Other Precautions:

Avoid skin and eye contact. 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 SX50-1, Prepolymer

IX. Physical and Chemical Properties:

Boiling Point: >400°F **Melting Point:** NA **Evaporation Rate:** <1
Vapor Pressure (mm Hg.): NE **Vapor Density (AIR = 1):** >1
Solubility In Water: Reacts slowly to liberate CO2 gas
Appearance and Odor: Amber liquid; characteristic odor
Other Information: VOLATILITY @75°F: Very low PERCENT VOLATILE BY VOLUME(%): Negligible
SPECIFIC GRAVITY: 1.03

X. Stability and Reactivity:

Stability:
Stable
Incompatibility (Materials to Avoid):
Water, bases, amines, alcohols and oxidizing agents and other materials which react with isocyanates.
Decomposition/By Products:
Carbon dioxide, carbon monoxide, oxides of nitrogen, isocyanate vapors or mists.
Hazardous Polymerization:
May occur. Avoid incompatible reactants, especially strong bases, water or temperatures above 100°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. Incinerate in a licensed facility.

XIV. Transport Information:

Toluene Diisocyanate's RQ - 100 lbs
This product's RQ (with 3 % TDI) consequently - 3333 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	< 2.4%
2,6 Toluene Diisocyanate	91-08-7	< 0.6%

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under





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Product Name:

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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

