

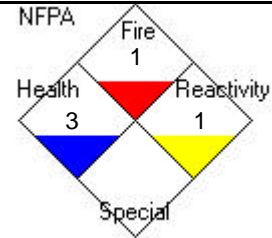
MSDS - Material Safety Data Sheet

Product Name: *Por-A-Kast Mark 2 Prepol*

MSDS No.: 002811

I. Basic Information:

Manufacturer: Hyperlast North America
Address: 2003 Amnicola Hwy
City, ST Zip: Chattanooga, TN 37406
Emergency Phone: 423-697-0400
Transportation Emergency Phone: Chem-trec 1-800-424-9300
Last Update: 12/10/2004



Chemical State: Liquid Gas Solid
Chemical Type: Pure Mixture

3		Health
1		Flammability
0		Reactivity
C		Pers. Protection

II. Ingredients:

CAS No.	Chemical Name	% Range	EHS	NTP	IARC	SUB Z	SARA 313	OSHA PEL	ACGIH TLV	Other Limits
101688	*Methylene Bisphenyl Isocyanate (MBI)	Section 15					X	0.02 ppm	0.005 ppm	NE
39310059	Diphenylmethane Diisocyanate (Homopolymer)	12-19						NE	NE	NE
26447405	Diphenylmethane Diisocyanate (MDI)*	44-50					X	0.02 ppm	0.005 ppm	NE
6846500	Polymeric Plasticizer	35-40						NE	NE	NE
78400	Triethyl Phosphate	<2						NE	NE	NE

III. Hazardous Identification:

Hazard Category:

Acute Chronic Fire Pressure Reactive

Hazardous Identification Information:

Warning!

Straw to light yellow liquid with a slight musty odor.

May cause eye, skin and respiratory tract irritation. Repeated or prolonged exposure may cause respiratory sensitization. Prolonged skin contact may cause skin sensitization.

Avoid temperatures above 120°F (48.9°C). Toxic gases/fumes are released during burning and decomposition.

IV. First Aid Measures:

Route(s) of Entry:

Inhalation, Ingestion, Skin and Eye contact.

Health Hazards (Acute and Chronic):

Acute (Short-Term)

Inhalation of the 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 MDI vapors above 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 in

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susceptible individuals.

Signs and Symptoms:

Skin, eye and respiratory tract irritation.

Medical Conditions Generally Aggravated by Exposure:

Prolonged skin contact can cause reddening, swelling or skin sensitization in susceptible individuals.

Repeated or prolonged inhalation above TLV can cause immediate or delayed respiratory sensitization and asthma-like conditions in susceptible individuals.

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:

Due to the low volatility of MDI vapors, high exposures are not anticipated unless the material is overheated or sprayed as an aerosol in the air.

V. Fire Fighting Measures:

Flash Point:	>500°F	Lower Explosive Limit:	NE	Upper Explosive Limit:	NE
Fire Extinguishing Media:	Foam, carbon dioxide, dry chemical and Halon 1211. If water is used, it should be used in very large quantities.				

Special Fire Fighting Procedures:

Firefighters must wear a full face self-contained breathing apparatus and protective clothing.

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. Personnel must be evacuated. 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 70-90°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.

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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:	>500°F	Melting Point:	NA	Evaporation Rate:	NE
Vapor Pressure (mm Hg.):	NE	Vapor Density (AIR = 1):	NE		
Solubility In Water:	Reacts slowly to liberate CO2 gas.				
Appearance and Odor:	Light yellow; slight musty odor.				
Other Information:	VOLATILITY @75°F: Very Low				
	PERCENT VOLATILE BY VOLUME(%): Negligible				
	SPECIFIC GRAVITY @ 77°F: 1.10				

X. Stability and Reactivity:

Stability:

Stable

Incompatibility (Materials to Avoid):

Water, acids, bases, alcohols, amines and other materials which react with isocyanates.

Decomposition/By Products:

High temperatures and burning conditions may release isocyanate vapors, carbon dioxide, carbon monoxide, nitrogen oxides and traces of hydrogen cyanide.

Hazardous Polymerization:

Hazardous polymerization may occur. Temperatures above 120°F will accelerate reactions with water. Polymerization may occur above 400°F.

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 control regulations. Incineration is the preferred method.

XIV. Transport Information:

Plastic Liquid Resin Material
Item 156240
DOT Shipping Class 60
Non-Hazardous

XV. Regulatory Information:

Diphenylmethane Diisocyanate (MDI)* CAS# 26447-40-5 contains *Methylene Bisphenyl Isocyanate (MBI) CAS# 101-68-8.

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
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Methylene Bisphenyl Isocyanate 101-68-8 33-38%

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