

MATERIAL SAFETY DATA SHEET

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PRODUCT IDENTIFICATION

TRADE NAME: ECO-PUR™
PRODUCT NO: HMPUR 12-3000

Prepared By: David Frank**Date Prepared: 7/22/12****Replaces Sheet Dated: N/A****SECTION 2: HAZARDOUS INGREDIENTS IDENTITY**

Hazardous Component(s):	OSHA PEL	ACGIH TLV	CAS No.
4,4-Diphenylmethane Diisocyanate	0.02ppm	0.005ppm	101-68-8

SARA TITLE III

Section 313: This product contains the following chemical(s) which are subject to the reporting requirements of Section 313 Title III of the Superfund and Reauthorization Act of 1986 (SARA):

4,4'-Diphenylmethane Diisocyanate CAS#101-68-8	$\frac{\%}{4-7\%}$
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SECTION 3: PHYSICAL AND CHEMICAL CHARACTERISTICS

1). Boiling Point:	>392F (>200C) at 5mm Hg
2). Weight/Gallon (Lbs./Gal):	9.4
3). Vapor Pressure:	<1 X 10-5mm Hg @ 25C
4). Vapor Density:	Approx 8.6
5). Solubility in Water	Insoluble
6). Reactivity with Water	Reacts to liberate CO2
7). Appearance and Odor	Odorless Off-White Solid
8). Melting Point	N/A

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SECTION 4: FIRE AND EXPLOSION DATA

- 1). Flash Point **>400F (>250C)**
Method Used: **PMCC ASTM-D93**
- 2). Autolgnition Temperature: **N/A**
- 3). Extinguisher Media: CO2, water fog, foam, or very large quantities of water
- 4). Flammable Limits/% Volume in Air: **N/A**
Lower: **N/A** Upper: **N/A**
- 5). Special Fire Fighting Procedures: Self Contained breathing apparatus sho
always be worn when fighting fires involving
chemicals. If water is selected use large quantities.
- 6). Unusual Fire and Explosion Hazards: Water/Isocyanate reaction may be vigorous.
Down wind personnel should be evacuated. Do
not reseal contaminated containers as pressure
buildup may cause rupture

SECTION 5: PHYSICAL/CHEMICAL HAZARDS (REACTIVITY DATA)

- 1). **Stability:** Stable Unstable
- 2). **Conditions to Avoid:** **None Known**
- 3). **Incompatibility (Materials to Avoid):** Organic Acids and Strong Oxidizing Agents
- 4). **Hazardous Decomposition Products:** Isocyanate vapor and mists, nitrogen oxides, carbon
monoxide, carbon dioxide and small amounts of
hydrogen cyanide
- 5). **Hazardous Polymerization:** May Occur Will Not Occur

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SECTION 6: HEALTH HAZARDS

- 1). **Acute:** No known short term adverse health affects
- 2). **Chronic:** Repeated and prolonged over exposure may result in mild skin irritation and/or possible respiratory sensitization.
- 3). **Symptoms of Over Exposure:**
Excessive over exposure may cause sensitization of the eyes, upper respiratory tract and lungs. Effects may be delayed. Decreased ventilatory capacity has been associated with similar materials.
- 4). **Medical Conditions Generally Aggravated by Exposure:**
May cause aggravation of asthmatic symptoms
- 5). **Chemicals listed as Carcinogens or Potential Carcinogens:**

NTP	YES	IARC	YES	OSHA	YES
	No XX		NO XX		NO XX

SECTION 7: EMERGENCY AND FIRST AID PROCEDURES

If Symptoms of Over Exposure Develop, Always Seek Immediate Medical Attention.

Routes of Entry

- 1). **Inhalation:** Remove subject to fresh air. May cause respiratory sensitization.
- 2). **Eye Contact:** Flush with water for at least 15 minutes. May cause slight eye irritation.
- 3). **Skin Contact:** Wash with Soap and Water. Possible allergic reaction to susceptible individuals.
- 4). **Ingestion:** DO NOT INDUCE VOMITING. Seek immediate medical attention. Single oral doses of toxicity low. No hazards are anticipated from incidental exposure.

SECTION 8: SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

- 1). **Precautions to be taken in Handling and Storage:**
Avoid contact with moisture or incompatible agents. Store in tightly sealed drums in dry areas at temperatures between 50-100F.
- 2). **Other Precautions:** None
- 3). **Steps to be taken in case material is released or spilled:**
Evacuate and ventilate spill area. Dike spill with absorbent materials and shovel into open containers for removal to well ventilated areas. Neutralize material with a mixture of water and 3-8% concentrated ammonium hydroxide.
- 4). **Waste Disposal Methods:**
Do Not dispose of in lakes or streams.

Always consult Federal, State, Regional, and Local Regulations pertaining to this material before using any disposal method suggested.

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SECTION 9: SPECIAL PROTECTION INFORMATION/CONTROL MEASURES

Always Use Protective Equipment/Clothing as Necessary to Keep Exposure to this Material Below Applicable Exposure Limits.

Respiratory Protection: Use with adequate local and mechanical ventilation

Ventilation-Local: Immediate local ventilation sufficient to maintain exposure to vapors below exposure limits

Ventilation-Mechanical: Air circulation

Ventilation-Special: None

Ventilation-Other: None

Gloves: Butyl Rubber or Neoprene Latex gloves recommended

Eye: Safety Glasses and/or Splash Goggles when splash potential exists

Other Clothing: Wear as required to use conditions

Hygienic Practices: Use in ventilated areas with good industrial hygiene practices. Avoid contact with skin. Wash exposed Areas with soap and water.

SECTION 10: TRANSPORTATION

DOT Proper Ship Name * Other Regulated Substances, Liquid, N.O.S. (Diphenylmethane Diisocyanate)

UN# *NA3077

Hazard Class *9

Packaging Group *III

RQ 84,874 lbs

Labels Required *Class 9 for shipments above listed RQ

Special Transportation Instructions: When shipped in individual containers at less than listed RQ this material is Shipped as NOT REGULATED (Polyurethane Adhesive)

SECTION 11: REGULATORY

TSCA Status with regards to TSCA 8 (b) Inventory of Chemical Substances:

TSCA Status: **NONCOMPLIANT**

Canadian Domestic Substance List Status:

DSL Status: **NONCOMPLIANT**

OSHA Hazardous Status under the criteria of Federal OSHA Hazard Communication Standard 29 CFR 1910.1200:

Hazardous YES

Non Hazardous

CERCLA Reportable Status:

5000# FOR 4,4'-Diphenylmethane Diisocyanate (CAS# 101-68-8)

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