



1. PRODUCT AND COMPANY IDENTIFICATION

Company : W.R. Meadows®, Inc.
 Address : 300 Industrial Drive, Hampshire, IL 60140
 Telephone : 847-214-2100
 Emergency Phone : 800-424-9300 (CHEMTREC)
 Part Number : 4727000
 Product Use : Polyurethane Adhesive

2. HAZARDS IDENTIFICATION / EXPOSURE LIMITS

Further information: HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings	Hazard Statements	Precautionary Statements
Health: 1	WARNING!	Avoid direct contact/breathing vapors. Wear appropriate personal protective equipment. Use only in well-ventilated areas.
Flammability: 2	Causes skin, eye, respiratory irritation.	
Reactivity: 1	May cause an allergic skin/respiratory reaction. Harmful if inhaled.	
Personal Protection:	May cause damage to liver, kidney, lungs, and blood.	



Hazard Rating: 0 = Least, 1 = Slight, 2 = Moderate, 3 = High, 4 = Extreme, * = Chronic

3. HAZARDS COMPONENTS

Chemical Name	CAS#	% by Weight	SARA 313	Vapor Pressure (mm Hg@20°C)	LEL (@24°C)
Diphenylmethane 4,4'-Diisocyanate	101-68-8	0-1	Yes	N/A	N/A
Xylene	1330-20-7	1-5	Yes	9 @68°F	1
Isocyanate Blend*	N/A: Mixture	0-1	No	N/A	N/A

* Isocyanate blend contains Diphenylmethane Diisocyanate (CAS# 9016-87-9) & Diphenylmethane 2,4' Diisocyanate (CAS# 5873-54-1) Under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1966 (SARA) and 40 CFR Part 372, chemicals listed on the 313 List (40 CFR Part 373.65) are identified under the heading "SARA 313". N/A: Not Applicable

4. EMERGENCY AND FIRST AID PROCEDURES

Eye Contact: Flush eyes with water for fifteen (15) minutes. Seek prompt medical attention. Materials containing isocyanate may react with moisture of the eye forming a thick material that may be difficult to wash from the eye.

Skin Contact: Remove contaminated clothing. Wash affected area with mild soap and water. If symptoms persist, seek medical attention.

Inhalation: If respiratory symptoms develop, move victim from exposure source and into fresh air. Treat symptomatically. If symptoms persist, seek medical attention.

Ingestion: No adverse effects are anticipated by this route of exposure incidental to proper industrial handling.

5. FIRE AND EXPLOSIVES HAZARDS

Flashpoint: >141°F

Extinguishing Media: Carbon dioxide, dry chemical, or foam. If water is used, it should be applied in large quantity. The reaction between water and hot isocyanate may be vigorous.

Chemical/Combustion Hazards: Potentially cyanide containing compounds, carbon monoxide, carbon dioxide, and incomplete combustion products.

Precautions/Personal Protective Equipment: Do not reseal contaminated containers as pressure build up may rupture them. Responders should utilize full bunker gear and a self-contained breathing apparatus.



6. ACCIDENTAL RELEASE MEASURES

Spill or Leak Procedures: Evacuate personnel as necessary. Absorb with sawdust or other absorbent and shovel into open top containers. Do not make pressure tight. Transport to a well ventilated area (outdoors) and treat with a neutralizing solution consisting of water and a 3-8% ammonium hydroxide solution or a 5-10% sodium carbonate solution. Add about ten parts of neutralizer per part of spill while mixing. Allow to stand forty eight hours allowing evolved carbon dioxide gas to escape.

7. HANDLING AND STORAGE

Safe Handling Procedures: Avoid direct contact. Avoid sources of moisture contamination.

Safe Storage: Store in cool, dry location. Keep containers closed when not in use. Protect from freezing. Store at temperatures between 50°C and 95°C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	OSHA				ACGIH			
	PEL	PEL/CEILING	PEL/STEL	SKIN	TWA	TLV/CEILING	TLV/STEL	SKIN
1. Diphenylmethane 4,4' Diisocyanate	0.02 ppm	N/E	N/E	No	0.005 ppm	N/E	N/E	No
2. Xylene	100 ppm	N/E	150 ppm	N/E	100 ppm	N/E	150 ppm	No
3. Isocyanate Blend	N/E	N/E	N/E	N/E	N/E	N/E	N/E	No

N/E: Not Established

Engineering Controls: None required under normal use conditions.

Personal Protective Equipment: Safety glasses, chemical resistant gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: Not Determined

Vapor Density: Not Determined

% Volatile by Volume: Not Determined

Evaporation Rate: <1 (Ether = 1)

pH Level: Not Applicable

%Volatile by Weight: Not Determined

Weight per Gallon: 9.50

Product Appearance: Paste

VOC Content: 52 g/L

10. STABILITY/REACTIVITY

Stability: Stable.

Conditions & Materials to Avoid: Oxidizing agents, strong acids/alkalies, alcohols, amines, metal compounds, and surface active materials. Avoid water as it reacts to form heat, carbon dioxide, and insoluble urea.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, incomplete combustion products, and potentially cyanide containing compounds

Hazardous Polymerization: May occur.

11. TOXICOLOGICAL INFORMATION

Eye Contact: Direct contact or exposure to vapors may cause mild to moderate eye irritation. Corneal injury is unlikely.

Skin Contact: Direct contact may result in mild to moderate irritation. Prolonged contact may result in skin irritation. Sensitization reactions are possible.

Inhalation: Exposure may produce irritation to the nose, throat, respiratory tract, and mucous membranes. After repeated overexposures or exposure to a single large dose certain individuals may develop isocyanate sensitization (chemical asthma) that will cause them to react to a later exposure to isocyanate at levels below the TLV. Isocyanate sensitization may be temporary or permanent. Once sensitized an individual may experience these symptoms upon exposure to dust, cold air, or other irritants. This increased lung sensitivity can persist for weeks and in severe cases for several years. Once an individual is diagnosed as being sensitized to isocyanate no further exposure can be permitted. Chronic over exposure to isocyanate has also been reported to cause lung damage (including decreased lung function) which may be permanent. Acute overexposure to isocyanate may also lead to bronchitis, bronchial spasm, and pulmonary edema. These effects are usually reversible. Chemical or hypersensitive pneumonitis with flu-like symptoms have also been reported. These symptoms can be delayed up to several hours.

Ingestion: Single dose oral toxicity is low. Ingestion may cause irritation of the gastrointestinal tract. No hazards are anticipated from ingestion incidental to industrial exposure.



11. TOXICOLOGICAL INFORMATION CONTINUED

Signs and Symptoms: Symptoms of eye irritation include pain, tearing, redness, and swelling. Symptoms of skin irritation include reddening, swelling, rash, and redness. Symptoms of respiratory irritation include runny nose, sore throat, coughing, chest discomfort, shortness of breath, and reduced lung function. Symptoms of gastrointestinal irritation include sore throat, abdominal pain, nausea, vomiting, and diarrhea. Lung sensitization results in asthma-like symptoms; chest tightness, shortness of breath, wheezing, and coughing. These symptoms may be immediate or delayed up to several hours.

Aggravated Medical Conditions: Pre-existing skin, eye, and respiratory disorders may be aggravated by product exposure. Persons with asthmatic-type conditions, chronic bronchitis, or other chronic respiratory diseases, recurrent skin eczema, sensitization, or allergies should be excluded from working with isocyanates.

Other Health Effects: None recognized.

12. ECOLOGICAL INFORMATION

Ecotoxicity: N/E

Degradability: N/E

Bioaccumulative Potential: N/E

Soil Mobility: N/E

Other Adverse Effects: N/E

13. WASTE DISPOSAL INFORMATION

Waste Disposal Information: Unreacted material requires disposal via a hazardous waste facility. Completely solid (polymerized) product would be classified as a non-hazardous waste.

14. TRANSPORTATION INFORMATION

Hazardous/Non-Hazardous Material: Not regulated by domestic ground shipments.

UN Number: None.

Hazard Class: None.

Packing Group: None.

UN Proper Shipping Name: None.

Environmental Hazards: None recognized.

Bulk Transportation Information: Not applicable. Product is not shipped in bulk.

Special Precautions: None.

15. REGULATORY INFORMATION

Other Regulatory Considerations: None.

16. OTHER INFORMATION

The information contained herein is based on the data available to us and is believed to be correct. However, we make no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for injury from the use of the product described herein.