



# SAFETY DATA SHEET

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

<b>Product:</b>	<b>MEL-ROL® LIQUID MEMBRANE</b>	<b>Part Number: 5120-000A</b>
	<b>Component A</b>	<b>ADDRESS: 70 Hannant Court</b>
<b>Manufacturer:</b>	<b>W. R. Meadows® of Canada</b>	Milton, Ontario Canada L9T 5C1
<b>Telephone:</b>	(905) 878-4122	In case of emergency, dial (800) 424-9300 (CHEMTREC)
<b>Revision Date:</b>	6/16/2017	
<b>Product Use:</b>	Two Component Waterproofing Membrane	

## SECTION 2: HAZARDS IDENTIFICATION/EXPOSURE LIMITS

HMIS		HAZARD STATEMENTS	
Health	2	<b>WARNING!</b>	
Flammability	1	Causes skin, eye, respiratory irritation.	
Reactivity	1	May cause an allergic skin/respiratory reaction.	
Personal Protection		Harmful if inhaled.	
			<b>PRECAUTIONARY STATEMENTS</b>
			Avoid direct contact/breathing vapors.
			Wear appropriate Personal Protective Equipment.
			Use only in well-ventilated areas.

## SECTION 3: HAZARDS COMPONENTS

Chemical Name:	CAS Number	% by Weight	SARA 313	Vapor Pressure (mm Hg@20°C)	LEL (@25°C)
1. Diphenyl Methane Diisocyanate (MDI)	26447-40-5	50-55	Yes	N/A	N/A
2. 4,4'-Diphenylmethane Diisocyanate	101-68-8	1-5	Yes	N/A	N/A
3. Hydrogenated Terphenyls	61788-32-7	25-30	No	N/A	N/A

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*

## SECTION 4: EMERGENCY AND FIRST AID PROCEDURES

**EYE CONTACT:** Flush eyes with water for fifteen minutes. Product may react with moisture from the eye and may be difficult to remove. Seek medical attention.

**SKIN CONTACT:** Remove contaminated shoes/clothing. Wash affected areas with mild soap and water. If irritation develops/persists, seek medical attention.

**INHALATION:** Move victim from exposure source and into fresh air. Treat symptomatically. If symptoms persist, seek medical attention.

**INGESTION:** Do not induce vomiting. Rinse mouth with water. Seek medical attention.

**MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND CHRONIC:** See Section Eleven for Symptoms/Effects.

## SECTION 5: FIRE AND EXPLOSIVES HAZARDS

**FLASHPOINT:** >147°C (ASTM D 93)

**EXTINGUISHING MEDIA:** Dry chemical, carbon dioxide, foam, water spray for large fires.

**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. Avoid direct contact. Responders should utilize full bunker gear and self-contained breathing apparatus.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**SPILL OR LEAK PROCEDURES:** Evacuate personnel as necessary. Absorb spilled material with sawdust or other absorbent and place in 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. About ten parts of neutralizer per part of spill while mixing. Allow to stand forty-eight hours allowing evolved carbon dioxide gas to escape.

## SECTION 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. Store between 10 and 30 degrees C.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name:	OSHA					ACGIH		
	PEL	PEL/CEILING	PEL/STEL	SKIN	TWA	TLV/CEILING	TLV/STEL	SKIN
1. Diphenyl Methane Diisocyanate (MDI)	N/E	N/E	N/E	N/E	N/E	N/E	N/E	N/E
2. 4,4'-Diphenylmethane Diisocyanate	0.02 ppm	N/E	N/E	No	0.005 ppm	N/E	N/E	No
3. Hydrogenated Terphenyls	5 mg/m <sup>3</sup>	N/E	N/E	N/E	5 mg/m <sup>3</sup>	N/E	N/E	N/E

*N/E: Not Established*

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## Section 8 continued

**ENGINEERING CONTROLS:** Not required under normal use conditions.

**PERSONAL PROTECTIVE EQUIPMENT:** Safety glasses, chemical-resistant gloves.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>BOILING POINT:</b> > 257°C	<b>VAPOR DENSITY:</b> >1 (Air=1)	<b>% VOLATILE BY VOLUME:</b> Not Established
<b>EVAPORATION RATE:</b> <1 (Ether=1)	<b>pH LEVEL:</b> Not Applicable	<b>% VOLATILE BY WEIGHT:</b> Not Established
<b>WEIGHT PER GALLON:</b> 9.46	<b>PRODUCT APPEARANCE:</b> Brown Liquid	<b>VOC CONTENT:</b> Not Established
<b>ODOR:</b> Mild Organic	<b>ODOR THRESHOLD:</b> N/D	<b>MELTING/FREEZING POINT:</b> N/D
<b>FLASH POINT:</b> See Section 5	<b>FLAMMABILITY:</b> N/D	<b>UEL/LEL:</b> N/D
<b>VAPOR PRESSURE:</b> N/D	<b>RELATIVE DENSITY:</b> N/D	<b>SOLUBILITY:</b> N/D
<b>PARTITION COEFFICIENT:</b> N/D	<b>AUTOIGNITION TEMPERATURE:</b> N/D	<b>DECOMPOSITION TEMPERATURE:</b> N/D
<b>VISCOSITY:</b> N/D		<i>N/D: Not Determined</i>

## SECTION 10: STABILITY/REACTIVITY

**STABILITY:** Stable.

**HAZARDOUS POLYMERIZATION:** May occur.

**CONDITIONS AND MATERIALS TO AVOID:** Water, amines, strong bases, alcohols, copper alloys.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon dioxide, carbon monoxide, oxides of nitrogen, isocyanate, isocyanic acid, and incomplete combustion products.

## SECTION 11: TOXICOLOGICAL INFORMATION

**EYE CONTACT:** Direct contact causes irritation with reddening, tearing, stinging, and swelling. May cause temporary corneal injury. Vapors/aerosols may cause irritation.

**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 overexposure 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:** May cause irritation. Symptoms may include abdominal pain, nausea, vomiting, and diarrhea.

**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.

## SECTION 12: ECOLOGICAL INFORMATION

**ECOTOXICITY:** N/E

**DEGRADABILITY:** N/E

**BIOACCUMULATIVE POTENTIAL:** N/E

**SOIL MOBILITY:** N/E

**OTHER ADVERSE EFFECTS:** N/E

## SECTION 13: WASTE DISPOSAL INFORMATION

**WASTE DISPOSAL INFORMATION:** Liquid material should be incinerated as a hazardous waste.

## SECTION 14: TRANSPORTATION INFORMATION

**HAZARDOUS/NON-HAZARDOUS MATERIAL:** Hazardous Material (Limited Quantity)

**UN NUMBER:** 3082

**HAZARD CLASS:** 9

**PACKING GROUP:** III

**UN PROPER SHIPPING NAME:** Other Regulated Substances, Liquid, N.O.S. (4,4'-Diphenylmethane Diisocyanate).

**ENVIRONMENTAL HAZARDS:** None recognized.

**BULK TRANSPORTATION INFORMATION:** Not applicable. Product not shipped in bulk configuration.

**SPECIAL PRECAUTIONS:** None.

## SECTION 15: REGULATORY INFORMATION

**OTHER REGULATORY CONSIDERATIONS:** None.

## SECTION 16: OTHER INFORMATION

**PREPARATION DATE:** 6/16/2017

**PREPARED BY:** Dave Carey

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*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 this product described herein.*

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