

Date of preparation: 02/11/11

SECTION I

Manufacturer : **W. R. MEADOWS, INC.**
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 : Hampshire, Illinois 60140
 Telephone # : (847) 683-4500
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- H M I S -

Health	2
Flammability	1
Reactivity	1
Personal Protection	

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

Product Class : DIVISION 7
 Mfg. code I.D. : 5120001-1
 Trade Name : **MEL -ROL TWO COMPONENT LIQUID MEMBRANE COMPONENT A**

SECTION II-A HAZARDOUS COMPONENTS

No.	Component	CAS#	% by Weight	SARA 313	VAPOR PRESSURE (mm Hg @ 20 C)	LEL (@ 25 C)
1.	Hydrogenated Terphenyls	61788-32-7	25-30	NO	N/A	N/A
2.	Terphenyls	26140-60-3	1-5	NO	N/A	N/A
3.	Diphenylmethane Diisocyanate (MDI)	26447-40-5	50-55	YES	N/A	N/A
4.	Methylene Bisphenyl Isocyanate	101-68-8	1-5	YES	N/A	N/A
5.	Diphenylmethane Diisocyanate (Homopolymer)	39310-05-9	10-15	YES	N/A	N/A

None of the components of this product are recognized as carcinogenic. N/A = Not Applicable
 Under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372, chemicals listed on the 313 List (40 CFR Part 373.65) are identified under the heading "SARA 313".

SECTION II-B OCCUPATIONAL EXPOSURE LIMITS

No.	OSHA				ACGIH			
	PEL/TWA	PEL/CEILING	PEL/STEL	SKIN	TLV/TWA	TLV/CEILING	TLV/STEL	SKIN
1.	5 mg/m³	N/E	N/E	N/E	5 mg/m³	N/E	N/E	N/E
2.	5 mg/m³	N/E	N/E	N/E	5 mg/m³	N/E	N/E	N/E
3.	0.2 mg/m³	0.2 mg/m³	N/E	N/E	0.051 mg/m³	N/E	N/E	N/E
4.	0.2 mg/m³	0.2 mg/m³	N/E	N/E	0.051 mg/m³	N/E	N/E	N/E
5.	N/E	N/E	N/E	N/E	N/E	N/E	N/E	N/E

N/E = Not established

SECTION III PHYSICAL DATA

Boiling Point	: > 500 degrees F	% Volatile by volume	: Not applicable
Evaporation Rate	: < 1 (ether = 1)	% Volatile by weight	: Not applicable
Vapor Density	: > 1 (air = 1)	Weight per gallon	: 9.46 (Theoretical)
pH Level	: Not applicable		

SECTION IV HEALTH INFORMATION

EYE CONTACT: Based on the presence of component 1 this product is presumed to be moderately irritating to the eyes. Exposure may cause corneal injury. Product vapors and/or mists may also be irritating to the eyes.

SKIN CONTACT: Based on the presence of component 2, this product is presumed to be moderately irritating to the skin. Prolonged contact may cause damage to the skin. Based on the presence of component 1, prolonged or repeated contact may result in defatting and drying of the skin which may result in dermatitis. Based on the presence of components 3, 4 and 5 this product may cause an allergic reaction in susceptible individuals. Prolonged or repeated contact may cause skin irritation and may stain skin.

INHALATION: Exposure may cause irritation to the nose, throat, respiratory tract, and other mucous membranes. Based on the presence of component 1 exposure to excessive vapor concentrations may cause signs of transient central nervous system depression (e.g., headache, drowsiness, loss of coordination, and fatigue). Based on the presence of components 3, 4 and 5, as a result of repeated overexposure or exposure to a single large dose, certain individuals may develop Isocyanate sensitization (chemical asthma) which will cause them to react to a later exposure to Isocyanate at levels well below the TLV. Isocyanate sensitization may be either temporary or permanent. Once sensitized, an individual may experience these symptoms upon exposure to dust, cold air, and 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 decrease in lung function) which may be permanent. Acute overexposure to Isocyanates may lead to bronchitis, bronchial spasm and pulmonary edema. These effects are usually reversible. Chemical or hypersensitive pneumonitis, with flu-like symptoms has also been reported. These symptoms can be delayed up to several hours after exposure.

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INGESTION: Based on the presence of component 1 this product is presumed to be slightly toxic.**SIGNS AND SYMPTOMS:** Symptoms of skin and eye irritation include pain, tearing, reddening, and swelling. 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 exposure to this product. Persons with asthmatic-type conditions, chronic bronchitis, other respiratory diseases, recurrent skin eczema, sensitization or allergies should be excluded from working with Isocyanates.**OTHER HEALTH EFFECTS:** Lung tumors have been observed in laboratory animals exposed to aerosol droplets of MDI/Polymeric MDI (6 mg/m³) for their lifetimes. Tumors occurred with respiratory irritation and lung injury. Current exposure guidelines are expected to protect against these effects.

SECTION V EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: If irritation or redness develops, move victim away from exposure source and into fresh air. Flush eyes with water for fifteen (15) minutes. If symptoms persist, seek medical attention. Materials containing MDI may react with the moisture of the eye forming a thick material which may be difficult to wash from the eye.**SKIN CONTACT:** Remove contaminated shoes and clothing. Cleanse affected area(s) thoroughly by washing with mild soap. If irritation or redness develops and persists, seek medical attention.**INHALATION:** If respiratory symptoms develop, move victim away from exposure source and into fresh air. If symptoms persist, seek medical attention. If victim is not breathing, immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.**INGESTION:** Dilute with liquid unless the victim is unconscious or very drowsy. If vomiting spontaneously occurs, keep the victim's head below the hips to prevent aspiration into the lungs. Consult a physician, hospital, or poison control center and/or transport to an emergency facility immediately.

SECTION VI FIRE AND EXPLOSION HAZARDS

FLAMMABILITY CLASSIFICATION
- NFPA: None
- DOT: Not regulated**FLASH POINT:** Greater than 300 degrees F**EXTINGUISHING MEDIA:** Carbon Dioxide, dry chemical or foam. If water is used, it should be used in very large quantity. The reaction between water and hot Isocyanate may be vigorous.**SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS:** Clear area of unprotected personnel. Do not enter confined fire space without helmet, face shield, bunker coat, gloves, rubber boots, and a positive pressure NIOSH approved self-contained breathing apparatus.**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Do not reseal contaminated containers as pressure buildup may rupture them.

SECTION VII REACTIVITY

STABILITY: Unstable**HAZARDOUS POLYMERIZATION:** May occur**CONDITIONS AND MATERIALS TO AVOID:** Avoid oxidizing materials, strong acids, strong alkalis, amines, metal compounds and surface active materials. Avoid water as it reacts to form heat, Carbon Dioxide, and insoluble urea. The combined effect of Carbon Dioxide and heat can produce enough pressure to rupture a closed container. The reaction with water is slow at temperatures less than 120 degrees F, but accelerated at higher temperatures. Some reactions are violent.**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides and compounds of Nitrogen. Toluene Diisocyanate, and traces of Hydrogen Cyanide. Combustion may yield Carbon Dioxide, Carbon Monoxide, and/or incomplete combustion products. Do not breathe smoke or fumes.

SECTION VIII EMPLOYEE PROTECTION

RESPIRATORY PROTECTION: Use ventilation as required to control vapor concentrations - at least 10 air changes per hour are recommended for good general room ventilation. If exposure exceeds the PEL/TLV, use the appropriate NIOSH approved respirator.**PROTECTIVE CLOTHING:** Wear safety glasses, goggles, or a splash shield to prevent eye contact. Contact lenses should not be worn. Wear appropriate gloves and protective clothing to prevent contact with skin and clothing.**ADDITIONAL PROTECTIVE MEASURES:** Eye wash fountains and safety showers should be available for use in an emergency.

SECTION IX ENVIRONMENTAL PROTECTION

SPILL OR LEAK PROCEDURES: Evacuate and ventilate the spill area, dike spill to prevent entry into the water system, wear full protective equipment including respiratory equipment during cleanup. **LARGE SPILLS>>** If temporary control of vapor is required, a blanket of protein foam (available at most fire departments) may be placed over the spill. Large quantities may be pumped into closed, but not sealed containers for disposal. **SMALL SPILLS>>** Absorb with sawdust or other absorbent material 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 a mixture of water and 3-8% concentrated Ammonium Hydroxide or 5-10% Sodium Carbonate. Add about ten (10) parts of neutralizer per part of spill while mixing. Allow to stand 48 hours allowing evolved Carbon Dioxide to escape.**WASTE DISPOSAL:** Observe all Federal, State and local regulations regarding proper disposal.

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SECTION X ADDITIONAL PRECAUTIONS

Containers can contain hazardous product residues even when empty. Wash with soap and water before eating, drinking, smoking or using toilet facilities.

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.