

**MATERIAL SAFETY DATA SHEET**

**PRODUCT #UR0218 MF**

**SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**COMPANY INFORMATION**  
H.B. Fuller Company  
1200 Willow Lake Boulevard  
Vadnais Heights, MN 55110

**DISTRIBUTOR INFORMATION**  
American Chemical, Inc.  
2201 North 2nd Street  
Minneapolis, MN 55411  
(612) 522-4707

Medical Emergency Phone Number (24 hour): 1-888-853-1758  
Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

**PRODUCT INFORMATION**

Product Number: UR0218 MF  
Product Identifier: 805342PM  
Product Description: Urethane 1 part system

**SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS**

Unlisted ingredients are not 'hazardous' per the Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200) and/or are not found on the Canadian Workplace Hazardous Materials Information System ingredient disclosure list. See Section 8 for any additional exposure limit guidelines.

CHEMICAL NAME	CAS #	PERCENT	OSHA PEL
Methylene bisphenyl diisocyanate (MDI)	101-68-8	10 - 30	Ceiling 0.02ppm
Diphenylmethane-2,4-diisocyanate	5873-54-1	0.1 – 1	Ceiling 0.02ppm

**SECTION 3 – HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW:**

Moderate eye irritant. Can cause skin irritation. May cause allergic skin reaction. May cause an allergic respiratory reaction. Harmful if swallowed.

HMIS Rating:  
See Section 8:

Health-2                      Flammability-1                      Reactivity-0  
Exposure controls/personal protection for personal protective equipment recommendations.

**POTENTIAL HEALTH EFFECTS BY ROUTE ENTRY**  
Eye:

Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.

Skin:  
Inhalation:

Can cause skin irritation. May cause sensitization.  
Can cause minor respiratory irritation. Other possible symptoms include; wheezing and coughing due to pulmonary edema (fluid build-up in lungs). May cause allergic respiratory reaction. At room temperature, MDI vapors are minimal due to low vapor pressure. If product is heated or if an aerosol/mist is generated, airborne concentrations may be reached that cause irritation or other adverse effects.

Ingestion:

Ingestion is not an anticipated route of exposure. Harmful if swallowed. Irritating to mouth, throat, and stomach.

Long-Term (Chronic) Health Effects  
Chronic:  
Target Organs(s):

May cause tumors based on tests with laboratory animals.  
Lungs skin

Regulated Carcinogen Status: Unless noted below, this product does not contain regulated levels of NTP, IARC, ACGIH, or OSHA listed carcinogens.

Existing Health Conditions Affected by Exposure: Lung disease; skin disease including eczema and sensitization; persons with existing asthmatic conditions may experience difficulty breathing. Person who have been sensitized to isocyanates may experience symptoms at very low exposure levels.

#### SECTION 4 – FIRST AID MEASURES

If In Eyes: Flush eyes with plenty of water for at least 20 minutes. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.

If On Skin: Wash with soap and water under a drench shower. Get medical attention immediately.

If Vapors Inhaled: Remove to fresh air. Call a physician if symptoms persist.

If Swallowed: Do not induce vomiting. Seek Medical attention immediately. Drink two glasses of water or milk to dilute. Do not give anything by mouth to an unconscious person. Induced vomiting may lead to aspiration of the material into the lungs potentially causing chemical pneumonitis that may be fatal.

#### SECTION 5 – FIRST FIGHTING MEASURES

Flash Point: >204 C (400 F) Cleveland Closed Cup

Auto Ignition Temperature: Not established

Lower Explosive Limit (% in air): Not established

Upper Explosive Limit (% in air): Not established

Extinguishing Media: Use water spray, foam, dry chemical or carbon dioxide.

Unusual Fire and Explosion Hazards: Material will burn in a fire.

Special Fire Fighting Instructions: Persons exposed to products of combustion should wear self-contained breathing apparatus and full protective equipment.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide, Nitrogen containing gases, Hydrogen cyanide

#### SECTION 6 – ACCIDENTAL RELEASE MEASURES

Special Protection: Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this MSDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred.

Cleanup: Dike if necessary, contain spill with inert absorbent and transfer to containers for disposal. Keep spilled product out of sewers, watersheds, or water systems. Cover with absorbent material. Place in open topped container. Remove to well-ventilated area and treat with aqueous ammonia.

#### SECTION 7 – HANDLING AND STORAGE

Handling: Harmful or irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated areas. Local exhaust ventilation and air-supplied respiratory protection should be used when changing product containers at application temperature. Isocyanate levels should be monitored in application areas during use. Moisture contamination in close containers may produce carbon dioxide gas pressure.

Storage: Store in a cool, dry place

Consult the Technical Data Sheet for specific storage instructions.

#### SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection: Wear safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid or airborne material. Have an eye wash station available.

Skin Protection: Avoid skin contact by wearing chemically resistant gloves.

Gloves: Nitrile

Respiratory Protection: Respiratory protection may be required to avoid overexposure when handling this product. Use a respirator if general room ventilation is

not available or sufficient to eliminate symptoms. Use supplied-air respiratory equipment as required. Respirators should be selected by and used following requirements found in OSHA's respirator standard (29 CFR 1910.134).

Ventilation:

Use local exhaust ventilation or other engineering controls to minimize exposures.

Exposure Limits:

Chemical Name	ACGI Exposure Limits	AIHA WEEL
Methylene bisphenyl diisocyanate (MDI)	TWA 0.005ppm	Not established
Diphenylmethane-2,4-diisocyanate	TWA 0.005ppm	Not established

#### SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Color:	Translucent Yellow
Odor:	Neutral
Odor Threshold:	Not established
Weight per gallon (lbs.):	9.3
Specific Gravity:	1.11
Solids (% by weight):	100.0
pH:	Not established
Boiling Point (deg. C):	Not established
Freezing/Melting Point (deg. C):	Not established
Vapor Pressure (mm Hg):	Not established
Vapor Density:	Not established
Evaporation Rate:	Not established
Octanol/Water Coefficient:	Not established

#### SECTION 10 - STABILITY AND REACTIVITY

Stability:	Stable under normal conditions
Chemical Incompatibility:	water Alcohols Amines Strong acids Strong alkalis
Hazardous Polymerization:	Will not occur.
Hazardous Decomposition products:	Carbon monoxide, carbon dioxide, Nitrogen containing gases, Hydrogen cyanide

#### SECTION 11 – TOXICOLOGICAL INFORMATION

Chemical Name	LD50/LC50
Methylene bisphenyl diisocyanate (MDI)	Oral LD50 Rat = 9200mg/kg Inhalation LC50 Rat = 178mg/cu m (no duration specified)
Diphenylmethane-2,4-diisocyanate	Not established

#### SECTION 12 – ECOLOGICAL INFORMATION

Overview: No ecological information available

#### SECTION 13 – DISPOSAL CONSIDERATIONS

To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous waste Regulations 40 CFR 261. Disposal via incineration at an approved facility is recommended. Consult your state, local or provincial authorities for disposal recommendations.

#### SECTION 14 – TRANSPORTATION INFORMATION

Consult Bill of Lading for transportation information

DOT: Not Regulated

IATA: Not Regulated

#### SECTION 15 – REGULATORY INFORMATION

##### INVENTORY STATUS

U.S. EPA TSCA: This product is in compliance with the Toxic Substances Control Act's Inventory requirements.

Canadian CEPA DSL: This product is in compliance with the Canadian Domestic Substance List requirements.

European EINECS: This product is in compliance with the European Inventory of Notified and Existing Chemical Substances requirements.

Australia AICS: This product is in compliance with the Australian Inventory of Notified and Existing Chemical Substances requirements.

Japan ENCS: This product is in compliance with the Japanese Existing and New Chemical Substances requirements.

Korean TCCL: This product is in compliance with the Korean Existing Chemicals List requirements.

If you need more information about the inventory status of this product call 651-236-5858

This product may contain chemical substances that are regulated for export by various government agencies (such as the Environmental Protection Agency, the Bureau of Industry and Security, or the Drug Enforcement Administration, among others). Before exporting this product from the USA or Canada, we recommend you contact us to request an export review.

Federal Reporting

EPA SARA Title III Section 313

Unless listed below, this product does not contain toxic chemical (s) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR part 72. EPA has advised that when a percentage range is listed the midpoint may be used to fulfill reporting obligations.

Chemical Name	CAS#	%
Methylenebis(phenylisocyanate)(MDI)	10-68-8	10 - 30

WHMIS STATUS: Unless listed below, this product is not controlled under the Canadian Workplace Hazardous Materials Information System.  
D2B D2A

STATE REPORTING - This MSDS is not prepared for distribution in California.

SECTION 16 – ADDITIOINAL INFORMATION

This Material Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS)

7/2008