

UR-0218 WF 001  
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Glue

WAUWATOSA / IDC / NASHOTAH  
EXTERIOR DOORS - JELD WEN  
GLUE - H.B. FULLER CO.  
URETHANE - 1 PART

10/03

MATERIAL SAFETY DATA SHEET

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

COMPANY INFORMATION

H.B. Fuller Company  
3530 Lexington Avenue N.  
St. Paul, MN 55126-8076  
Phone: 651-236-5300  
Fax: 651-236-5309

MSDS INFORMATION

Preparation Date: 30 July 2000  
Supersedes: 26 January 2000  
Prepared By: Industrial Hygiene  
Phone Number: 651-236-5842

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

PRODUCT INFORMATION

Product Name/Number: UR-0218 WF 001  
Product Description (product use): URETHANE 1 PART SYST

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

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). Unlisted ingredients are not 'hazardous' per the OSHA standard and/or are not found on the WHMIS ingredient disclosure list.

Chemical/CAS Number	Percent	OSHA PEL	ACGIH TLV
Methylene bisphenyl isocyanate (MDI) (26447-40-5)	10-30%	0.02 ppm-C	0.005 ppm
LD50: 220 mg/kg (oral, rat)	LC50: 178 mg/M3 (rat)		
Vapor pressure, in mm Hg @ 20 C:	<0.001.		

"C" denotes a ceiling limit that should not be exceeded during any part of the working exposure.

See Section 16 for additional information.

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Exposure to vapors of heated product or to mists of sprayed product may be harmful.  
Potential respiratory and skin sensitizer.  
Possible eye irritant.  
Prolonged skin contact may cause irritation.  
Harmful if swallowed.

#### POTENTIAL HEALTH EFFECTS

Eyes: Eye contact with liquid product may cause irritation.

Skin: Prolonged or repeated contact may cause irritation. Skin contact may result in allergic skin reactions or respiratory sensitization.

Inhalation: At room temperature, vapors are minimal due to low vapor pressure of MDI. Overexposure to vapors given off by heated product or mists given off by sprayed product may cause irritation of the nose, throat and respiratory tract. Symptoms of overexposure may include coughing, difficulty in breathing or a tight feeling in the chest. MDI is a potential respiratory sensitizer.

Ingestion: Harmful if swallowed.

Chronic: Long-term overexposure to vapors may cause reduced pulmonary function. Respiratory irritation, lung damage and tumors have been observed in laboratory animals exposed to droplets of MDI (6 mg/M<sup>3</sup>) for their lifetime. Current exposure guidelines are expected to protect against these effects.

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: Persons with existing asthmatic conditions may experience additional difficulty in breathing. Persons who have been sensitized to isocyanates may experience symptoms at very low exposure levels.

#### SECTION 4: FIRST AID MEASURES

If in eye: Flush immediately with large amounts of water for at least 15 minutes. Call a physician.

If on skin: Wash affected area with soap and water. Launder contaminated clothing before reuse.  
Call a physician if symptoms persist.

If vapors inhaled: Remove from exposure. Provide artificial respiration if breathing has stopped. Call a physician if symptoms persist. Asthmatic-type symptoms may develop and may be delayed up to several hours. Call a physician if this occurs.

If ingested: If person can swallow, give one glass of water or milk.  
Do not induce vomiting. Get immediate medical attention.  
Never give anything by mouth to an unconscious person.

**SECTION 5: FIRE FIGHTING MEASURES**

Flash Point/Method: Greater than 400 degrees F / Cleveland (204 C).

Upper Explosive Limit/Lower Explosive Limit: Not applicable

Autoignition Temperature: Not applicable

Appropriate Extinguishers: Use water spray, foam, dry chemical or carbon dioxide.

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

Unusual Fire and Explosion Hazards: None known.

Hazardous Combustion Product: Incomplete combustion can yield low molecular weight hydrocarbons, carbon monoxide, nitrogen compounds and traces of hydrogen cyanide.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

Spill or Leak Procedures: 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 INFORMATION**

Avoid skin contact with product at all times.  
Avoid exposure to mist from sprayed product or vapors from heated product.

**STORAGE INFORMATION**

Consult the Technical Data Sheet for specific storage instructions.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

Eye Protection: Wear safety glasses to reduce the potential for eye contact; a faceshield is appropriate if splashing is likely.  
Have eye washes available where eye contact can occur.

Skin Protection: Prevent contact by using rubber gloves and appropriate protective clothing. Launder contaminated clothing before reuse.

Respiratory Protection: Use NIOSH/MSHA approved self-contained breathing apparatus where inadequate ventilation exists. Persons with known sensitizations to isocyanates should not work with this material.

Ventilation: Local exhaust ventilation preferred. Provide ventilation to control contaminant levels below airborne exposure limits.

#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	LIQUID
Color:	TRANSLUCENT YELLOW
Odor:	NEUTRAL
Odor Threshold:	Not established
Weight per Gallon:	9.3 lbs.
Specific Gravity:	1.11
% Solids by Weight:	100
pH:	Not established
Boiling Range:	Not established
Freezing/Melting Point:	Not established
Vapor Pressure:	Not established
Vapor Density:	Not established
Evaporation Rate:	Not established
Water/Oil Partition Coefficient:	Not established
VOC:	Not established

#### SECTION 10: STABILITY AND REACTIVITY DATA

Stability: Stable

Incompatibility: Water, alcohols, amines, strong acids, strong bases.

Hazardous Decomposition:  
Nitrogen compounds  
Traces of hydrogen cyanide

Hazardous Polymerization: Will not occur

#### SECTION 11: TOXICOLOGICAL INFORMATION

No data available

#### SECTION 12: ECOLOGICAL INFORMATION

No data available

#### SECTION 13: DISPOSAL CONSIDERATIONS

It is our opinion that this product does not meet the definition of hazardous waste under U.S. EPA Hazardous Waste Regulations 40 CFR 261. Dispose of waste material according to state, local or provincial regulations.

**SECTION 16: ADDITIONAL INFORMATION**

Moisture contamination in closed containers may produce carbon dioxide gas pressure.

**HMIS RATING**

Health-2            Flammability-1            Reactivity-1

See SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for personal protective equipment recommendations.

The information and recommendations set forth herein are believed to be accurate. Because some of the information is derived from information provided to the H.B. Fuller Company from its suppliers, and because the H.B. Fuller Company has no control over the conditions of handling and use, the H.B. Fuller Company makes no warranty, expressed or implied, regarding the accuracy of the data or the results to be obtained from the use thereof. The information is supplied solely for your information and consideration, and the H.B. Fuller Company assumes no responsibility for use or reliance thereon. It is the responsibility of the user of H.B. Fuller Company products to comply with all applicable federal, state and local laws and regulations.