

## MATERIAL SAFETY DATA SHEET – RIGID GROUT B

### SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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#### Product Information

Product Name: Rigid Grout B  
Chemical Family: Isocyanate Prepolymer  
Application: Chemical Grout  
Supplier: Multiurethanes Ltd.  
5245 Creekbank Road, Mississauga, ON L4W 1N3  
Telephone: 905-564-7650  
Fax: 905-564-7998  
Emergency Contact: 1-800-663-6633

#### MSDS Preparation Information

Revision Date: July 21, 2011  
Prepared By: Multiurethanes Ltd, Mississauga, ON L4W 1N3  
Telephone: 905-564-7650

### SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

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Ingredient	CAS Number	Concentration
Higher Oligomers of MDI	9016-87-9	45-55%
4,4' Diphenylmethane Diisocyanate	101-68-8	< 45%
Diphenylmethane Diisocyanate	26447-40-5	1-10%

### SECTION 3: HAZARDS IDENTIFICATION

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#### Emergency Overview Ingredient

Brown liquid; slight musty odour; hazardous

#### Potential Health Effects

Eye Contact: Irritation  
Skin Contact: Irritation  
Inhalation (acute): Irritation  
Inhalation (chronic): Sensitization  
Ingestion: May be poisonous

## SECTION 4: FIRST AID MEASURES

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Eye Contact:	Flush with water; if irritation occurs, seek medical attention
Skin Contact:	Wash with soap and water; if irritation occurs, seek medical attention
Inhalation:	Move to fresh air; if difficulty breathing occurs, seek medical attention
Ingestion:	Seek medical attention; drink water; do not induce vomiting

## SECTION 5: FIRE FIGHTING MEASURES

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Flash Point:	199°C
Extinguishing Media:	Dry chemical; carbon dioxide; foam; water spray
Special Fire Fighting Instructions:	Wear full protective equipment, including SCBA; keep containers cool with water spray

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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General:	Use conventional absorbents
Waste Disposal:	Do not seal containers; dispose according to local regulations

## SECTION 7: HANDLING AND STORAGE

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Storage:	Store in a dry location
Handling:	Handle with care

## SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

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### Engineering Controls

Engineering Controls:	Not required for typical applications
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### Personal Protective Equipment (PPE)

Eye/Face Protection:	Safety glasses with side shields; emergency eye-wash kits readily available
Skin Protection:	Impermeable gloves; protective clothing with long sleeves and long pants
Respiratory Protection:	Not required for typical applications

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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Physical Form:	Liquid
Appearance:	Brown liquid
Colour:	Brown
Odour:	Musty
Boiling Point:	200°C
Melting/Freezing Point:	Below 0°C
Solubility in Water:	Not soluble, reacts slowly with water to emit carbon dioxide
Specific Gravity:	1.24 at 25°C
Bulk Density:	1.24 g/ml
% Volatiles by Volume:	Negligible
pH:	Not determined
Vapour Pressure:	Less than $1 \times 10^{-5}$ mm/Hg at 25°C for MDI
Vapour Density:	8.5 (MDI) (Air =1)

## SECTION 10: STABILITY AND REACTIVITY

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Stability:	Stable
Hazardous Polymerization:	May occur following contact with moisture, other materials that react with isocyanates, or temperatures above 204°C
Incompatibles:	Avoid contact with water, amines, strong alkalis, alcohols
Decomposition Product:	Burning may produce oxides of nitrogen, carbon monoxide, traces of hydrogen cyanide, MDI vapours or aerosols.

## SECTION 11: TOXICOLOGICAL INFORMATION

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### Acute Toxicity for Diphenylmethane Diisocyanate

Oral LD50:	> 10,000 mg/kg in rats
Dermal LD50:	> 6,200 mg/kg in rabbits
Inhalation LC50:	370 to 490 mg/m <sup>3</sup> in rats
Eye Effects:	Irritation
Skin Effects:	Irritation; prolonged exposure may cause respiratory sensitization
Sensitization:	Chronic inhalation may cause sensitization
Chronic toxicity:	Not determined
Carcinogenicity:	Possible cause of tumors in rats
Mutagenicity:	Not determined

## SECTION 12: ECOLOGICAL INFORMATION

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Evidence of aquatic toxicity. Avoid environmental contamination.

### SECTION 13: DISPOSAL CONSIDERATIONS

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Decontaminate containers. Dispose according to local regulations.

### SECTION 14: TRANSPORTATION AND SHIPPING INFORMATION

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Not regulated

### SECTION 15: REGULATORY INFORMATION

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OSHA status:	Hazardous; irritant
TSCA status:	Components are listed on TSCA Inventory
CERCLA reportable quantity:	Not applicable for typical product application
SARA Title III Section 302:	Extremely hazardous substances - no known reportable constituents
SARA Title III Section 311/312:	Hazard categories- acute health hazard; chronic health hazard
SARA Title III Section 313:	Toxic Chemical Release Reporting - not applicable
RCRA status:	It is the responsibility of the product user to determine, at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

### SECTION 16: OTHER INFORMATION

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#### WHMIS (Workplace Hazardous Material Identification System) Rating:

Class D2B - Very Toxic Material

#### NFPA (National Fire Protection Agency) Rating:

Health	Flammability	Reactivity	Other
2	1	1	0

#### NAERG (North American Emergency Response Guide) Rating:

156

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**End of MSDS**