

## MATERIAL SAFETY DATA SHEET – UNIVERSAL RESIN

### SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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#### Product Information

Product Name: Universal Resin  
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 2, 2015  
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
Diisobutyl Phthalate	84-69-5	< 30%
4,4' Diphenylmethane Diisocyanate	101-68-8	< 21%
Higher Oligomers of MDI	9016-87-9	< 25%
Diphenylmethane Diisocyanate	26447-40-5	< 5%

### SECTION 3: HAZARDS IDENTIFICATION

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#### Emergency Overview Ingredient

Brown liquid; musty odour; hazardous

#### Potential Health Effects

Eye Contact: Mild irritation  
Skin Contact: Irritation  
Inhalation (acute): Irritation  
Inhalation (chronic): Sensitization; may damage lungs  
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 difficult 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:	1.... °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:	Use mechanical ventilation; do not spray; beware of pressure build-up in closed containers
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### Personal Protective Equipment (PPE)

Eye/Face Protection:	Safety glasses with side shields; emergency eye-wash kits readily available; face shield for high-pressure spray hazards
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:	208°C
Melting/Freezing Point:	Below 0°C
Solubility in Water:	Insoluble, slow reaction with water to emit carbon dioxide
Specific Gravity:	1.14 - 1.18 at 25°C
Bulk Density:	1.14 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

Oral LD50:	> 2,000 mg/kg in rats
Dermal LD50:	> 5,000 mg/kg in rabbits
Inhalation LC50:	490mg/m <sup>3</sup> , vapor, 4h (Rat)
Eye Effects:	Irritation
Skin Effects:	Prolonged exposure may cause sensitization
Sensitization:	Chronic inhalation may cause sensitization
Chronic toxicity:	Not determined
Carcinogenicity:	Not expected to be carcinogenic
Mutagenicity:	Not expected to be mutagenic

## SECTION 12: ECOLOGICAL INFORMATION

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Evidence of aquatic toxicity. Avoid environmental contamination.

## SECTION 13: DISPOSAL CONSIDERATIONS

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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 - Toxic Material

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

Health	Flammability	Reactivity	Other
3	1	0	0

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

156

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**End of MSDS**