

## MATERIAL SAFETY DATA SHEET

### PRODUCT NAME

IMTECH PERMA FIX PART "A"

### SECTION I – SUPPLIER AND MATERIAL IDENTIFICATION

Supplier's Name: IMTECH  
18620 NE San Rafael  
Portland, OR 97230  
Phone: 503-618-1066  
Fax: 503-618-8445  
Emergency Phone Number Only: 800-255-3924

Product Class: Prepolymer (Resin)  
Chemical Family: Polyurethane  
Trade Name: PermaFix Part "A"  
Cas No.: 101-68-8

### SECTION II: HAZARDOUS INGREDIENTS

INGREDIENT NAME	CAS NUMBER	PERCENTAGE
Methylene Bisphenyl Isocyanate	101-68-8	5 – 7 % (0.005ppm TLV ACGIH)

### SECTION III: PHYSICAL DATA

Appearance: Clear Amber Liquid  
Specific Gravity: 1.15  
% Volatility: Not available  
Vapor Pressure: 0.000005 mm Hg. at 20°C for the MDI  
Viscosity: 25 – 30 Poise  
Boiling Point: 245°C  
Odor: Slight

### SECTION IV: FIRE AND EXPLOSION DATA

Flash Point: 255°C  
Auto Ignition Temperature: 400°C  
Flammable Limits in Air: No Data  
Fire Fighting Procedure: Fire fighters should wear self-contained breathing apparatus and full protective clothing.  
Extinguishing Media: AFFF Foam, Carbon Dioxide, Dry Chemical, and Water  
Explosion Data: Sensitive to mechanical impact: NO DATA.  
Sensitive to static discharge: NO DATA.  
Unusual Hazards: During a fire, Methylene Bisphenyl Isocyanate (MDI) vapors may be generated by thermal decomposition of combustion.

### SECTION V: REACTIVITY DATA

Stability: Stable at ambient temperatures and pressure.  
Hazardous Polymerization: Will not occur.  
Incompatibility: Water, strong oxidizing agents and active hydrogens.  
Hazardous Decomposition Products: Oxides of carbon and nitrogen and trace hydrogen cyanide.  
Conditions to Avoid: Elevated temperatures, pressures, sparks and open flames.

### SECTION VI: HEALTH RELATED DATA

Exposure Limits: 0.005 ppm TLV ACGIH for MDI  
Effects of overexposure:  
Eye: Causes redness and irritation.  
Skin: May result in skin irritation.  
Inhalation: May irritate respiratory tract, sore throat, choking and tightness of chest. MDI is a respiratory sensitizer.

# IMTECH

Wear & Abrasion Resistant Products

Ingestion:

Animal Data:

Carcinogenicity:

Mutagenicity:

Non reported, not a likely source of entry.

LD50 (oral, rat)=4.56 mg/kg., LD50 (dermal, rabbit)=10 mg/kg. LC50 (inhalation, mouse)=400 mg/m

This product is not classified as carcinogenic by ACGIH.

This product does not have mutagenic/reproductive/teratogenic and fetotoxic effects.

## FIRST AID

Eyes:

Immediately flush with water for at least 20 minutes. Hold eyelids open during flushing. Get prompt medical attention.

Skin:

Wipe off excess with clean cloth followed by isopropanol, soap and water for 20 minutes. Get medical attention.

Inhalation:

Remove to fresh air. Aid or restore breathing if necessary. Get medical attention.

Ingestion:

**Do not induce vomiting.** If victim is alert rinse mouth and give one glass of water or milk to dilute material. Get medical attention immediately.

## SECTION VII: SAFE HANDLING, SPILL AND LEAK PROCEDURES

Storage and Handling:

Store in a cool, well ventilated area. Keep away from heat, sparks and flames. Use personal protective equipment.

Spills:

Cover spills with inert absorbent material. Wear full protective equipment and saturate spill with neutralizing solution (1% ammonia in water + 10% isopropanol in water) and then ventilate the area.

Waste disposal:

In accordance to local, state and federal regulations. Consult regional environmental agency.

## SECTION VIII: CONTROL MEASURES

Respiratory Protection:

Minimum: nose and mouth respirator with paint fume cartridges.

Protective Gloves:

Impervious rubber gloves.

Eye Protection:

Chemical safety goggles. Contact lenses should not be worn when handling any chemical.

Ventilation:

General ventilation is adequate; however, local exhaust ventilation is recommended.

Clothing:

Wear an impermeable apron and boots to cover exposed skin.

## SECTION IX: REGULATORY INFORMATION

WHMIS:

D.2.A

TDG:

Not regulated

P.I.N.:

None

## OTHER INFORMATION

PREPARED BY:

RAM Enterprise, Inc.  
18620 NE San Rafael  
Portland, OR 97230  
503-618-1066

TELEPHONE NUMBER:

DISCLAIMER:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.