

### Section 1: Product and Company Identification

<b>Product Name:</b>	<b>Terroxy<sup>®</sup> Resin Systems — Urethane Concrete, Part B</b>
Product Use Description:	Curing Agent, Urethane Concrete
Company:	Terrazzo & Marble Supply Companies 77 South Wheeling Road Wheeling, Illinois 60090
Telephone:	847.353.8000
Emergency Telephone:	800.424.9300 - USA 01.703.527.3887 - International

### Section 2: Hazards Identification

<b>Classification of the mixture:</b>	Skin sensitization – Category 1 Eye irritation – Category 2A Respiratory sensitization – Category 1 Acute Tox. – Category 4 Specific Target Organ Toxicity, Single Exposure – Category 3
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#### Classification according to Regulation (EC) No 1272/2008

#### GHS Label elements:

#### Hazard Pictogram:



**Signal Word:** Danger

**Hazard Statements:** H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H317 May cause an allergic skin reaction.  
H332 Harmful if inhaled  
H335 May cause respiratory irritation

**Precautionary Statements:** P260 Do not breathe dust/fume/gas/mist/vapors/spray  
P284 In case of inadequate ventilation wear respiratory protection  
P280 Wear protective gloves/protective clothing/eye protection/face protection  
P304+P340 If inhaled: remove victim to fresh air and keep at rest in a position comfortable for breathing  
P302+P352 If on skin: Wash with plenty of water  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention  
P403+P233 Store in a well-ventilated place. Keep container tightly closed  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations

**Other hazards not classified:** CAUTION! Contains Isocyanates. Harmful if inhaled. May cause skin, eye and respiratory tract irritation.

Possible sensitizer. Reacts with water, alcohols, based and amines and releases large amounts of carbon dioxide gas.

### Section 3: Composition / Information on Ingredients

This product is a mixture.

Component	CAS#	Amount
Diphenylmethane-4,4-diisocyanate (MDI)	101-68-8	>50.0%
P-MDI	9016-87-9	>40.0%

N/E - Not Established  
 ALL ingredients are registered on TSCA  
 The remaining components are trade secret.

Substances listed are present in concentration of 1% or greater, or 0.1% if cited as a potential Carcinogen in the OSHA Hazards communication Standard. Where proprietary ingredient is listed, the identity is available as provided in 29 CFR 1910.1200.

### Section 4: First Aid Measures

- General advice:** Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.
- Eye contact:** Flush eyes with plenty of water for at least 15 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.
- Skin contact:** Wash off with soap and plenty of water. Consult a physician.
- Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
- Inhalation:** Move to fresh air. Get medical attention if effects persist.

### Section 5: Fire Fighting Measures

- Suitable extinguishing media:** Alcohol-resistant foam  
 Carbon dioxide (CO2)  
 Dry chemical  
 Water Spray
- Specific hazards:** Hazards during fire-fighting: Nitrous gases, fumes/smoke, isocyanate, vapor
- Special protective equipment for fire-fighters:** Wear self-contained breathing apparatus for firefighting if necessary.
- Further information :** No data available

## Section 6: Accidental Release Measures

- Personal precautions:** Use self-contained breathing apparatus and chemically protective clothing. Wear suitable protective clothing, gloves and eye/face protection. Evacuate personnel to safe areas.
- Environmental precautions:** Construct a dike to prevent spreading.
- Methods for cleaning up:** Approach suspected leak areas with caution. Contact Terrazzo and Marble Response Center for advice. Place in appropriate chemical waste container.
- Additional advice:** If possible, stop flow of product. Avoid contact. Allow only personnel wearing goggles, neoprene or rubber gloves and protective clothing to clean up spill. In confined areas a full face respirator is recommended. Absorb spill with clay, diatomaceous earth or other absorbent materials. Place in disposal containers.

## Section 7: Handling and Storage

- Handling:** General advice: Mix thoroughly before use. If bulging of drum occurs, transfer to well ventilated area, puncture to relieve pressure, open vent and let stand for 48 hours before resealing. Protection against fire and explosion: No explosion proofing necessary.
- Storage:** General advice: Formation of CO<sub>2</sub> and build up of pressure possible. Keep container tightly closed and in a well-ventilated place. Outage of containers should be filled with dry inert gas at atmospheric pressure to avoid reaction with moisture. Suitable materials for containers: Carbon steel, High density polyethylene, low density polyethylene, stainless steel. Storage temperature: 50-95F, protect against moisture
- Technical Measures /Precautions:** Do not store in reactive metal containers.

## Section 8: Exposure Controls / Personal Protection

**Personal Protective Equipment:**

- Respiratory Protection:** Not required for properly ventilated areas. If vapor or mist is generated and the occupational exposure limit is exceeded, use appropriate NIOSH/MSHA approved self contained breathing equipment or a full face respirator. Respirators should be selected by and used following requirements found in OSHA's respirator standards (29 CFR 1910.134).
- Ventilation:** Mechanical ventilation required if TLV is expected to be exceeded in confined areas.
- Hand Protection:** Recommend wearing disposable latex or nitrile gloves when mixing to protect against incidental contact. If continuous contact is expected, recommend butyl rubber gloves be worn.
- Eye Protection:** Wear safety glasses with side shields or safety goggles when handling this product. Additionally, wear a face shield when the possibility of splashing liquid exists. Do not wear contact lens. Have an eye wash station available.
- Skin and Body Protection:** Prevent contact with this product. Long sleeve shirts and trouser without cuffs and/or apron is recommended if splashing liquids exists. Other protective equipment may be needed depending on condition use.

**Exposure Limit:**

Chemical Name	OSHA PEL	ACGIH TLV
Diphenylmethane-4,4-diisocyanate (MDI)	0.02 ppm	0.005 ppm
P-MDI	Not Established	Not Established

## Section 9: Physical and Chemical Properties

<b>Form:</b>	Liquid
<b>Color:</b>	Dark Brown
<b>Odor:</b>	Faint Odor
<b>Vapor pressure:</b>	0.00001 mm Hg @25°C
<b>Density:</b>	10.2 lbs / US Gallon
<b>Evaporator Rate:</b>	Not Established
<b>pH:</b>	Not Established
<b>Boiling point/Range:</b>	Not Established
<b>Flash point:</b>	Not Established
<b>Water solubility:</b>	Not soluble, reacts slowly with water to liberate CO2 gas.

## Section 10: Reactivity Data

<b>Stability :</b>	Stable under normal conditions.
<b>Conditions to Avoid:</b>	Moisture, excessive heat
<b>Materials to Avoid :</b>	Water, Strong bases, Strong oxidizing agents, Metals, Amines, Alcohols, Surface active materials
<b>Hazardous Decomposition Products:</b>	Hydrogen cyanide, nitrogen oxides, aromatic isocyanates, gases/vapors.
<b>Hazardous Polymerization:</b>	Will not occur.

## Section 11: Toxicological Information

Chemical Name	Toxicological Dataa
Diphenylmethane-4,4-diisocyanate (MDI)	LD50 >2,000mg/kg Rat LC50 >2 mg/m3 Rat LD50 >9,400 mg/kg Rat

**Toxicology Summary :**

Carcinogenic categories: OSHA-Ca. Substance not listed  
 Sensitization: May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 Carcinogenicity: not considered to be a carcinogen  
 Mutagenicity: not considered to be genotoxic  
 Reproductive toxicity: not considered hazardous to the reproduction

## Section 12: Ecological Information

**Overview:** No ecological information available.

## Section 13: Disposal Considerations

**Waste from residues / unused products:** Dispose in an approved incinerator or an approved landfill. Contact supplier if guidance is required.

**Contaminated packaging:** Dispose of container and unused contents in accordance with federal, state, and local requirements.

## Section 14: Transport Information

Consult Bill of Lading for transportation information  
**DOT:** Not Regulated  
**IATA:** Not Regulated

## Section 15: Regulatory Information

OSHA Hazard Communication Standard (29 CFR 1910.1200) Hazard Class(es) Acute Toxicity Sensitizer.

Country	Regulatory List	Notification
USA	TSCA	Included on Inventory
EU	EINECS	Included on Inventory
Canada	DSL	Included on Inventory
Australia	AICS	Included on Inventory
Japan	ENCS	Included on Inventory
South Korea	ECL	Included on Inventory
China	SEPA	Included on Inventory
Philippines	PICCS	Included on Inventory

EPA SARA Title III Section 312 (40 CFR 370) Hazard Classification:  
 Acute Health Hazard, Chronic Health Hazard

EPA SARA Title III Section 313 (40 CFR 372) Component(s) above 'de minimus' level:  
 None.

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65):  
 This product does not contain any chemicals known to State of California to cause cancer, birth defects or any other harm.

WHMIS Hazard Classification:  
 Toxic Material Causing Other Toxic Effects

## Section 16: Other Information

**HMIS Rating**

<b>Health:</b>	2
<b>Flammability:</b>	0
<b>Reactivity:</b>	1
<b>Physical hazard:</b>	C

Prepared by Terrazzo & Marble Supply Companies.

**Data and recommendations presented herein are based upon ours and other researchers and are believed to be accurate. The products discussed are distributed without warranty (expressed or implied) and the customer shall make his own determination of suitability for his particular purpose.**