Section 1: Product and Company Identification

Product Name: Terroxy® Resin Systems — Terrazzo WB Urethane Sealer
Product Use Description: Resin Compound, Water Born Urethane Sealer
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

Classification of the mixture: Non hazardous

Classification according to Regulation (EC) No 1272/2008

GHS Label elements:

Hazard Pictogram: ❌

Signal Word: Danger

Hazard Statements:
H315 Causes skin irritation.
H319 Causes serious eye irritation
H360 May damage fertility or the unborn child

Precautionary Statements:
P261 Avoid breathing mist/vapors/spray
P264 Wash hands and skin contact areas thoroughly after handling
P280 Wear protective gloves/eye/face protection
P302, P352 IF ON SKIN: Wash with plenty of soap and water
P305, P351, P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do, continue rinsing
P333, P313 If skin irritation or rash occurs: Get medical advice/attention
P337, P313 If eye irritation persists: Get medical advice/attention
P362 Take off contaminated clothing and wash before reuse
P501 Dispose of content/container through a waste management company authorized by the local government

Other hazards not classified: None Known
Section 4: First Aid Measures

General advice: Show this safety data sheet to the doctor in attendance.

Eye contact: Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Skin contact: Wash with water for 5-10 minutes. Remove any contaminated clothing and wash before reuse. If condition persist, Consult a physician.

Inhalation: Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a physician.

Ingestion: Do not induce vomiting unless directed by a physician. If conscious and alert, give two glasses of water. Seek medical attention immediately.

Protection of First-aiders: Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media CAUTION: Use of water spray when fighting fire may be inefficient

Specific hazards arising from the chemical
No information available.

Explosion Data
Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

Protective Equipment and Precautions for Firefighters
Revision Date 16-Apr-2015
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
Section 6: Accidental Release Measures

Personal precautions: Ensure adequate ventilation, especially in confined areas.

Environmental precautions: Keep out of waterways. This product can be safely flushed into a sanitary sewer that leads to a wastewater treatment plant. See Section 12 for additional Ecological Information.

Methods for Containment: Prevent further leakage or spillage if safe to do so.
Methods for cleaning up: Contain spill. Mop up. Rinse residue with water.

Section 7: Handling and Storage

Handling: Wash thoroughly after handling. Keep from freezing. KEEP OUT OF REACH OF CHILDREN.

Storage: Keep containers tightly closed in a dry, cool and well-ventilated place.

Section 8: Exposure Controls / Personal Protection

Personal Protective Equipment:

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Ventilation: Ensure adequate ventilation, especially in confined areas.

Hand Protection: Wear appropriate chemical resistant clothing and chemical resistant gloves.

Eye Protection: Splash-proof chemical goggles or face shield.

Skin and Body Protection: Wear appropriate chemical resistant clothing and chemical resistant gloves.

Exposure Limit:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>2-Butoxyethanol</td>
<td>50 ppm</td>
<td>20 ppm</td>
</tr>
<tr>
<td>N-Methyl Pyrolidone*</td>
<td>10 ppm recommended</td>
<td>10 ppm recommended</td>
</tr>
<tr>
<td>Triethylamine</td>
<td>25 ppm</td>
<td>1 ppm</td>
</tr>
</tbody>
</table>

*Unless otherwise noted, all PEL & TLV values are reported as 8 hour time weighted averages (TWA).

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 9: Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State:</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color:</td>
<td>Milky White</td>
</tr>
<tr>
<td>Odor:</td>
<td>Mild</td>
</tr>
<tr>
<td>Odor Threshold:</td>
<td>Not established</td>
</tr>
<tr>
<td>Weight Per Gallon:</td>
<td>Not established</td>
</tr>
<tr>
<td>Specific Gravity:</td>
<td>1.0 - 1.1</td>
</tr>
<tr>
<td>Solids (% by weight):</td>
<td>Not established</td>
</tr>
<tr>
<td>V.O.C.</td>
<td>145.1 g/L</td>
</tr>
<tr>
<td>pH:</td>
<td>7 - 9</td>
</tr>
<tr>
<td>Boiling point/Range:</td>
<td>212 °F (100 °C)</td>
</tr>
<tr>
<td>Vapor pressure:</td>
<td>17mm HG 20° C/68° F Water</td>
</tr>
<tr>
<td>Vapor density:</td>
<td>Heavier than air</td>
</tr>
<tr>
<td>Evaporator Rate:</td>
<td>About the same as water</td>
</tr>
<tr>
<td>Octanol/Water Coefficient:</td>
<td>Not Established</td>
</tr>
<tr>
<td>Freezing/Melting Point:</td>
<td>0° C</td>
</tr>
<tr>
<td>Flash Point:</td>
<td>N/A</td>
</tr>
<tr>
<td>Water Solubility:</td>
<td>Dilutable</td>
</tr>
</tbody>
</table>

Section 10: Reactivity Data

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stability:</td>
<td>Stable under normal conditions.</td>
</tr>
<tr>
<td>Chemical Incompatibility:</td>
<td>None.</td>
</tr>
<tr>
<td>Hazardous Polymerization:</td>
<td>None.</td>
</tr>
<tr>
<td>Hazardous Decomposition Products:</td>
<td>Thermal decomposition may yield acrylic monomers.</td>
</tr>
<tr>
<td>Conditions to avoid:</td>
<td>Do not freeze. Avoid temperatures above 177° C/350° F, the onset of polymer decomposition, thermal decomposition is dependent on time and temperature.</td>
</tr>
</tbody>
</table>

Section 11: Toxicological Information

Information on Likely Routes of Exposure

Primary routes of entry: Skin contact, ingestion, inhalation, eye contact, skin absorption

Information on Toxicological Effects:

Acute Toxicity:

Oral Components: Oral LD-50: (Rat): 1,300 mg/kg (2-butoxyethanol)  
                 : 4,150 mg/kg (1-methyl-2-Pyrrolidinone)  
                 : 460 mg/kg (Triethylamine)  
                 Oral LD-50: (Guinea Pig): 1,400 mg/kg (2-butoxyethanol)

Dermal Components: Dermal LD-50: (Rat): > 2,000 mg/kg (2-butoxyethanol)  
                   : 2,500 mg/kg (1-Methyl-2-Pyrrolidinone)  
                   Dermal LD-50: (Rabbit): 416 mg/kg (Triethylamine)

Inhalation Components: Vapour: LC50 (Rat, 3 h): > 4.9 mg/l (2-butoxyethanol)  
                       Vapour: LC0 (Guinea Pig, 1 h): > 3.4 mg/l (2-butoxyethanol)

Repeated Dose Toxicity Components: LOAEL (Rat, Oral Study): 69 mg/kg (Target Organ(s): Liver) (2-butoxyethanol)  
                                  NOAEL (Rat, Dermal Study): 150 mg/kg (2-butoxyethanol)  
                                  LOAEC (Rat, Inhalation Study): 152 mg/m3 (Target Organ(s): Blood) (2-butoxyethanol)
Skin Corrosion/Irritation
Components: (Rabbit, 24 h): moderate (2-butoxyethanol)

Serious Eye Damage/Eye Irritation
Components: (Rabbit, 24 h): moderate (2-butoxyethanol)

Respiratory or Skin Sensitization
Components: Skin Sensitization: (Guinea Pig) – Not a skin sensitizer.

Mutagenicity:
In Vitro
Components: Salmonella typhimurium assay (Ames test): negative +/- activation. (2-butoxyethanol)

In Vivo
Components: Chromosomal aberration intraperitoneal injection (Mouse, Male): Negative. (2-butoxyethanol)

Carcinogenicity
Product: Based on available data the classification criteria are not met. Not classified as hazardous.

Reproductive Toxicity
Components: Adverse effects on reproduction have been reported in rats after ingestion of amounts of 1-Methyl-2-Pyrrolidinone which also caused mild generalized changes in the parental animals. Fetal effects have been noted in pregnant animals exposed by ingestion, inhalation and skin contact, and occurred both in the presence and absence of maternal toxicity.

Specific Target Organ Toxicity – Single Exposure
Product: Not classified.

Specific Target Organ Toxicity – Repeated Exposure
Product: Not classified.

Aspiration Hazard
Product: Droplets of the product aspirated into the lungs through ingestion or vomiting may be harmful.

Other Adverse Effects/Toxicity
No data available. Approximately 15% of the product consists of ingredient(s) of unknown toxicity.

Section 12: Ecological Information

Toxicity:
Acute Toxicity:
Fish
Components: LC-50 (Oncorhynchus mykiss, 96h): 1,474 mg/l (2-butoxyethanol)
LC-50 (Lepomis macrochirus, 96h): 832 mg/L (1-Methyl-2-Pyrrolidinone)
LC-50 (Pimephales promelas, 96h): 43.7 mg/L

Aquatic Invertebrates
Components: EC-50 (Water Flea, 48h): 1,550 mg/l (2-butoxyethanol)

Chronic Toxicity:
Fish
Components: NOEC (Zebra Fish, 21 d): > 100 mg/l (2-butoxyethanol)

Aquatic Invertebrates
Components: NOEC (daphnid, 21 d): 100 mg/l (2-butoxyethanol)

Toxicity to Aquatic Plants
Components: EC-50 (Algae (Pseudokirchneriella subcapitata, 72 h): 1,840 mg/l (2-butoxyethanol)
Section 13: Disposal Considerations

Dispose of waste and residues in accordance with local authority requirements. Incinerate. Since emptied containers retain product residue, follow label warnings even after container is emptied.

Section 14: Transport Information

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

Section 15: Regulatory Information


<table>
<thead>
<tr>
<th>Country</th>
<th>Regulatory List</th>
<th>Notification</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA</td>
<td>TSCA</td>
<td>included on Inventory</td>
</tr>
<tr>
<td>EU</td>
<td>EINECS</td>
<td>-</td>
</tr>
<tr>
<td>Canada</td>
<td>DSL</td>
<td>included on Inventory</td>
</tr>
<tr>
<td>Australia</td>
<td>AICS</td>
<td>included on Inventory</td>
</tr>
<tr>
<td>Japan</td>
<td>ENCS</td>
<td>included on Inventory</td>
</tr>
<tr>
<td>South Korea</td>
<td>ECL</td>
<td>included on Inventory</td>
</tr>
<tr>
<td>China</td>
<td>SEPA</td>
<td>included on Inventory</td>
</tr>
<tr>
<td>Philippines</td>
<td>PICCS</td>
<td>included on Inventory</td>
</tr>
</tbody>
</table>

This product may contain substances that are regulated for export by various government agencies (such as the Environmental Protection Agency, the Bureau of Industry and Security, or the Drug Enforcement Administration, among others).

Federal Reporting
EPA SARA Title III Section 313
Unless listed below, this product does not contain toxic chemical(s) subject to the reporting requirements of section 313 of Title III of the Super-fund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR part 372. EPA has advised that when a percentage range is listed the midpoint may be used to fulfill reporting obligations.

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name</th>
<th>Percent Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>111-76-2</td>
<td>2-Butoxyethanol</td>
<td>&lt;5.0%</td>
</tr>
<tr>
<td>121-44-8</td>
<td>Triethylamine</td>
<td>&lt;1.0%</td>
</tr>
</tbody>
</table>

WHMIS STATUS: Unless listed below, this product is controlled under the Canadian Workplace Hazardous Materials Information System.

D2B D2A
STATE REPORTING
Proposition 65, The Safe Drinking Water and Toxic Enforcement Act of 1986:
Unless listed below, this product does not contain known levels of any chemical known to the State of California to cause cancer or reproductive harm.

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name</th>
<th>Percent Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>872-50-4</td>
<td>N-Methyl Pyrrolidone</td>
<td>&lt;5.0%</td>
</tr>
</tbody>
</table>

CWA (Clean Water Act): Triethylamine CAS 121-44-8 RQ (Reportable Quantity): 5000 lb
CERCLA: Triethylamine CAS 121-44-8 RQ (Reportable Quantity): 5000 lb

Clean Air Act: This product contains the following HAPS:
Triethylamine CAS 121-44-8 Weight Percent: <1.0
Section 16: Other Information

HMIS Rating
Health: 2
Flammability: 1
Reactivity: 0
Physical hazard: C

This Material Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standards (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS).

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.