

Material Safety Data Sheet

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Section 1: Product and Company Identification

Product Name: Terroxy® Resin Systems — Trowel Lubricant

Company: Terrazzo & Marble Supply Companies
77 South Wheeling Road
Wheeling, Illinois 60090

Telephone: 847.353.8000

Emergency Telephone Number: 800.424.9300 USA
01.703.527.3887 International

Section 2: Composition / Information on Ingredients

This Material Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazard Materials Information System (WHMIS). Unlisted ingredients are not “hazardous” per the OSHA standard and/or are not found on the WHMIS ingredient disclosure list.

Chemical Name	CAS #	OSHA PEL*	ACGIH TLV*	Amount (vol%)
Aromatic hydrocarbon	64742-95-6	25 ppm	25 ppm	<65
1,2,4-Trimethylbenzene	95-63-6	25ppm	25ppm	<35
Cumene	98-82-8		50ppm	<5
Xylene	1330-20-7	100ppm	100ppm	<5
Ethylbenzene	100-41-4	100 ppm	100 ppm	<1

- N/E — Not Established
- ALL ingredients are registered on TSCA
- *Unless otherwise noted, all PEL and TLV Values are reported as 8 hour time weighted averages (TWA)

Section 3: Hazards Identification

Health Risks and Symptoms of Exposure:

Inhalation: High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis and loss of consciousness and even death). Irritating to the nose, throat and respiratory tract. Solvent “huffing/sniffing” (abuse) or intentional prolonged overexposure to high levels of vapors can produce abnormal behavior, convulsions, hallucinations, delirium, nervous system damage, serious disturbances of heart rhythm and sudden death. Repeated exposure has caused slight anemia in laboratory animals.

Eyes: Causes eye irritation.

Skin: Substance can be absorbed through skin in harmful amounts. May cause skin irritation. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis(rash). Personnel with pre-existing skin disorders should avoid contact with this product.

Ingestion: Moderately toxic. Product may be harmful or fatal if swallowed. Material is a pulmonary aspiration hazard.

Material can enter lungs and cause damage. Ingestion of this product may cause central nervous system effects, which may include dizziness, loss of balance and coordination, unconsciousness, coma and even death. Irritating to mouth, throat and stomach.

Health Hazards (acute and chronic):

Carcinogenicity: No

NTP Carcinogen: No

IARC Monographs: No

OSHA Regulated: No

Medical Conditions Generally Aggravated by Exposure:

Overexposure to xylene may cause female and male reproductive disorders, based on tests with laboratory animals.

Long-term overexposure to solvents may cause liver and kidney damage. Some solvents may cause damage to the nervous system. No known effects on other illnesses.

Section 4: First Aid Measures

General advice:	Seek medical advice. If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.
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. Remove contact lenses if worn.
Skin contact :	For skin contact: Immediately flush skin with plenty of water. Remove contaminated clothing and launder. Get immediate medical attention. Wash clothing separately and clean shoes before reuse.
Ingestion :	Do not induce vomiting. Do not give liquids. Obtain emergency medical attention.
Inhalation :	Move to fresh air. Call a physician if symptoms persist.

Section 5: Fire Fighting Measures

Flash Point:	>105°F
Flammable Limits in Air:	
By Volume-Lower:	Not Established
By Volume-Upper:	Not Established
Extinguishing Media:	Water Spray; Alcohol resistant foam; Carbon Dioxide; Dry Chemical
Special Fire Fighting Procedures:	Decomposition and/or products of combustion may be toxic. Use self contained breathing equipment and structural fire fighting gear
Unusual Fire & Explosion Hazards:	There is the possibility of pressure buildup in closed containers when heated. Water spray may be used to cool the containers. Solvent vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights, other flames and ignition sources at locations distant from the material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.
Hazardous Combustion Product:	Incomplete combustion can yield low molecular weight hydrocarbons, carbon monoxide.

Section 6: Accidental Release Measures

Special Protection:	Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this MSDS. Eliminate all ignition sources. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred.
Clean-up:	Use only non-combustible material for clean-up. Use clean, non-sparking tools to collect absorbed materials. Collect spilled materials for disposal. Remove from surface by skimming or with suitable absorbents. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Recover by pumping (use an explosion proof or hand pump).

Transport Emergency Phone Number: (CHEMTREC) 1-800-424-9300

Section 7: Handling and Storage

Handling:	Harmful or irritation material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area.
Storage:	Store in a cool dry place. Keep away from heat, sparks & flame. Containers can build up pressure if exposed to heat (fire). Keep container closed when not in use. Do not allow to evaporate to near dryness.

Section 8: Exposure Controls / Personal Protection

<u>Engineering Measures:</u>	Provide readily accessible eye wash stations and safety showers. Provide natural or mechanical ventilation adequate to ensure concentrations are kept below exposure limits.
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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:	Nitrile rubber gloves.
Eye Protection:	Wear safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Have an eye wash station available.
Skin and Body Protection:	Avoid skin contact by wearing chemically resistant gloves and long sleeved shirt. An apron may be appropriate if splashing can occur. Hygienic Practices: Do not eat, drink, or smoke in areas where this material is used. Avoid breathing vapors. Remove contaminated clothing and wash before reused. Wash thoroughly after handling. Wash hands before eating.

Section 9: Physical and Chemical Properties

Physical State:	Liquid
Color:	Clear, Transparent
Odor:	Typical
Odor Threshold:	Not established
Weight Per Gallon:	7.24 lbs.
Specific Gravity:	0.8741
V.O.C.	868 g/L
pH:	Not Established
Boiling point/Range:	Not Established
Vapor pressure:	2.09 mmHg @ 77°F
Vapor density:	4.47 (air = 1)
Evaporaton- Rate:	0.3 (n-butyl acetate = 1)
Octanol/Water Coefficient:	Not Established
Freezing/Melting Point:	Not Established
Viscosity	0.9 cst @ 77°F
Specific Gravity	0.8741
Solubility and Water	Negligible

Section 10: Stability Reactivity Data

Stability:	Stable
Conditions to Avoid:	Avoid impact, friction, heat, sparks, open flame and source of ignition.
Incompatibility (materials to avoid):	Avoid contact with strong oxidizing agents, strong acids, separate, alkalies. Avoid contact with concentrated sulfuric or nitric acid.
Hazardous Decomposition or By-Products:	Carbon Monoxide, Carbon Dioxide and other asphyxiants. Nitrogen oxides and other products of incomplete combustion.
Hazardous Polymerization:	Will not occur

Section 11: Toxicological Information

Chemical Name	LD50 / LC50	LC50 mg/L
Aromatic hydrocarbon	2999.00	
1,2,4 trimethylbenzene ¹⁰		
Xylene	4300.00	4554.0
Cumene		
Ethylbenzene	3500.00	

Toxicology Summary : No additional health information available.

Section 12: Ecological Information

Overview: No ecological information available.

Section 13: Disposal Considerations

To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Consult state, local or provincial authorities for more restrictive requirements.

Section 14: Transport Information

Department of Transportation	
Proper Shipping Name:	Petroleum distillates, NOS (contains Naphtha and Petroleum).
Hazard Class:	Class 3 - Flammable Liquid
UN/NA ID Number:	1268
Packaging Group:	III
NAERG #:	128

The listed transportation information applies only to ground transport and does not address regulatory variations due to changes in package size mode of shipment or other regulatory discriptors.

Section 15: Regulatory Information

SARA Title III Section 313: This product contains the following toxic chemical(s) subject to the reporting requirements of section 313 of Title II of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR part 372:

CAS#	Chemical Name	Percent by Weight
#95-63-6	1,2,4 - Trimethyl Benzene	<35%
#1330-20-7	Xylene	<5%
#98-82-8	Cumene	<5%
#100-41-4	Ethylbenzene	<1%

PROP 65 (Carcinogen): Unless shown below, this product does not contain the chemicals known to the state of California to cause cancer.

CAS#	Chemical Name	Percent by Weight
	None	

PROP 65 (Teratogenic): Unless shown below, this product does not contain the chemicals known to the state of California to cause birth defects or other reproductive harm.

CAS#	Chemical Name	Percent by Weight
	None	

PROP 65 (Carcinogen & Teratogenic): Unless shown below, this product does not contain the chemicals known to the state of California to cause cancer or birth defects or other reproductive harm.

CAS#	Chemical Name	Percent by Weight
	None	

Hazardous Waste Information: Unless shown below, this product is not a hazardous waste according to definitions found in CFR-40.

State of Michigan Critical Materials: Unless shown below, this product does not contain ingredients appearing on the State of Michigan Critical Materials List.

CAS#	Chemical Name	Percent by Weight
	None	

Section 16: Other Information

HMIS Rating

Health:	1
Flammability:	2
Reactivity:	0
Personal Protection:	X

Volatile Organic Compounds, g/L : 868

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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.