

Section 1: Product and Company Identification

Product Name: Terroxy[®] Resin Systems — Polyaspartic, Part B

Product Use Description: Curing Agent, Polyaspartic

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: Skin sensitization – Category 1
Eye irritation – Category 2A
Respiratory sensitization – Category 1
Flammable Liquids - Category 3
STOT - single exposure - Category 3

Classification according to Regulation (EC) No 1272/2008

GHS Label elements:

Hazard Pictogram:



Signal Word: Danger

Hazard Statements: H226 Flammable liquid and vapour
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation
H332 Harmful if inhaled
H335 May cause respiratory irritation
H336 May cause drowsiness or dizziness

Precautionary Statements: P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233 Keep container tightly closed.
P242 Use only non-sparking tools
P243 Take precautionary measures against static discharge
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P261 Avoid breathing mist/vapors/spray
P264 Wash hands and skin contact areas thoroughly after handling
P271 Use only outdoors or in a well-ventilated area
P273 Avoid release to the environment
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P285 In case of inadequate ventilation wear respiratory protection.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P305, P351, P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do, continue rinsing
P310: Immediately call a POISON CENTER or doctor/physician
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician.

P362 Take off contaminated clothing and wash before reuse
 P391 Collect spillage
 P501 Dispose of content/container through a waste management company authorized by the local government

Other hazards not classified: None Known

Section 3: Composition / Information on Ingredients

This product is a mixture.

Component	CAS#	Amount
HDI Homopolymer	28182-81-2	90.0 - 100%
Isobutyl Isobutyrate	97-85-8	1.0 - 10.0%
Hexamethylene-di-isocyanate	822-06-0	< 0.5%

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.

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

Section 4: First Aid Measures

- General advice:** Move out of dangerous area. Remove any clothing soiled by the product. use appropriate protective equipment when treating a contaminated person. In case of irregular breathing or respiratory arrest, provide artificial respiration. 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. If irritation persists, consult a doctor.
- Skin contact:** Wash off with soap and plenty of water. Wash immediately and thoroughly for a prolonged period of at least 15 minutes. In case of inflammation (redness, irritation), seek medical attention and consult a physician.
- Ingestion:** Never attempt to induce vomiting. Rinse mouth out with water. Do not give anything by mouth to an unconscious person. Get medical attention.
- Inhalation:** Move to fresh air. Administer oxygen or artificial respiration as needed. Get medical attention if effects persist.

Section 5: Fire Fighting Measures

- Suitable extinguishing media:** Alcohol-resistant foam
 Carbon dioxide (CO2)
 Dry chemical
 Water Spray
- Unsuitable extinguishing media:** High volume water jet
- Specific hazards:** Combustible. During combustion, toxic vapors are released. Under fire conditions, corrosive fumes are emitted: oxides of nitrogen and carbon. Reacts with water releasing large amounts of carbon dioxide which may cause pressure build-up in confined spaces.
- Special protective equipment for fire-fighters:** Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

Further information: Stay upwind. Evacuate the personnel away from the fumes.

In case of fires close by: Cool down the containers/equipment exposed to heat with a water spray. Ensure that there is NO direct contact between the water and the product. Do not breathe fumes. Do NOT attempt to fight the fire without suitable protective equipment.

If there is a fire close by and if packaging has not been damaged: Use suitable extinguishers.

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. Provide adequate ventilation. Keep people at a safe distance and stay upwind. Mark out the contaminated area with signs and prevent access to unauthorized personnel.
Environmental precautions:	Contain the spilled material by binding. Do not allow to enter sewers/surface or ground water. Inform authorities if the product has caused environmental pollution (sewers, drains, waterways or soil).
Methods for cleaning up:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Pump up the product into a spare container suitable labelled Do not flush to drain. spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies. Cleanup personnel must use appropriate personal protective equipment. Remove all sources of ignition, including flames, heat, and sparks. Stop leak if without risk.
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. Decontaminate the spill surface area with a neutralization solution. These include: ZEP® Commercial Heavy-Duty Floor Stripper, EASY OFF® Grill and Oven Cleaner, a solution of Simple Green® Pro HD Heavy-Duty Cleaner (50%) and household ammonia (50%), and a solution of Fantastic® Heavy Duty All Purpose Cleaner (90%) and household ammonia (10%). Check for residual contamination using Swype® test kits from Colorimetric Laboratories, Inc. (Tel: 847-803-3737).

Section 7: Handling and Storage

Handling:	Avoid contact with eyes. Avoid contact with skin and eyes. Adhere to work practice rules established by government regulations. Use personal protective equipment. When using, do not eat, drink or smoke.
Storage:	Do not store near acids. Keep containers tightly closed in a dry, cool and well-ventilated place. Do not remove labels from empty containers. If mixtures of Part B and Part A are allowed to remain in the mixing container past the pot life deadline, heat and a strong reaction will result. Store separate from food products. Storage temperature is between 50°F and 85°F (10°C - 29°C).
Technical Measures /Precautions:	Do not store in reactive metal containers. Incompatible Materials or Ignition Sources: Hazardous polymerization does not occur. Avoid water, amines, strong bases, alcohols, and copper alloys.

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:	<p>HDI Homopolymer (CAS 28182-81-2) US ACGIH Threshold Limit Values Not established</p> <p>Hexamethylene-1,6-diisocyanate (CAS 822-06-0) US ACGIH Threshold Limit Values 0.005 ppm</p> <p>Isobutyl Isobutyrate (CAS 97-85-8) US ACGIH Threshold Limit Values Not established</p>

Section 9: Physical and Chemical Properties

Form:	Liquid
Color:	Clear, Pale Yellow
Odor:	slight solvent-like odor, sweet
Odor Threshold:	No data available
Specific gravity:	1.08 g/cm ³ at 68 °F (20 °C)
Vapor pressure:	< 0.001 hPa (< 0.001 mmHg) at 68 °F (20 °C)
VOC:	96 g/L
Density:	8.99 lb/gal
Evaporation Rate:	Not Established
Lower Explosion Limit:	Not Established
Upper Explosion Limit:	Not Established
Oxidizing properties:	Not oxidizing
Vapor Pressure:	HDI homopolymer: 0.0000093 mmHg @ 68°F (20°C) Isobutyl Isobutyrate: 3.0002 mmHg @ 68°F (20°C)
Vapor Density:	Not Established
pH:	Not Established
Boiling point/Range:	> 300°F (>149° C)estimated based on component(s)
Flash point:	120°F (49°C)
Water solubility:	Insoluble - reacts slowly with water to liberate CO ₂ gas
Auto-Ignition Temperature:	approximately 809°F (432°C)
Viscosity:	approximately 350 mPas @ 73°F (23°C)

Section 10: Reactivity Data

Stability :	Stable under normal conditions at ambient temperature
Conditions to Avoid:	Heat, flames and sparks
Materials to Avoid :	Water, Strong bases, Strong oxidizing agents, Metals, Amines, Alcohols, Surface active materials
Hazardous Decomposition Products:	Carbon dioxide, carbon monoxide, oxides of nitrogen, dense black smoke, hydrogen cyanide, isocyanate, isocyanic acid, and other compounds unidentified
Hazardous Polymerization:	Will not occur.

Section 11: Toxicological Information

Likely Routes of Exposure:	Skin contact, Inhalation, Eye contact, Ingestion
Immediate (acute) effects:	<p>HDI homopolymer (CAS 28182-81-2) Skin corrosion/irritation (Rabbit, 4h): Slight skin irritation Eye irritation (Rabbit): Slight irritant Inhalation (mouse): respiratory sensitizer STDT (one-time exposure): may cause respiratory irritation Carcinogenicity: no data available</p> <p>Hexamethylene-1,6-diisocyanate (CAS 822-06-0) Skin irritation (Rabbit): corrosive Eye irritation (Rabbit): corrosive Dermal (human): Sensitizer Respiratory (guinea pig): Sensitizer</p>
Acute toxicity:	<p>HDI homopolymer (CAS 28182-81-2) LD50 Oral Rat, Female > 2500 mg/kg LD50 Inhalation Rat, Female 0.390 mg/l 4h LD50 Dermal Rabbit > 2000 mg/kg LD50 Dermal Rat >2000 mg/kg</p> <p>Hexamethylene-1,6-diisocyanate (CAS 822-06-0) LD50 Oral Rat, Female 746 mg/kg LD50 Inhalation Rat, Female 0.124 mg/l 4h LD50 Dermal Rat >7000 mg/kg</p>
Carcinogenicity:	Not considered to be a carcinogen
Mutagenicity:	Product is not considered to be genotoxic
Reproductive toxicity:	Is not considered hazardous to the reproduction

Section 12: Ecological Information

Toxicity:	<p>Aquatic toxicity</p> <p>HDI homopolymer (CAS 28182-81-2) Acute and prolonged toxicity to fish: LC50 100 mg/l (zebra fish, 96h), Acute toxicity to aquatic invertebrates: EC50 100 mg/l (water flea, 48h). Persistence and degradability: not biodegradable</p> <p>Hexamethylene-1,6-diisocyanate (CAS 822-06-0) Persistence and degradability: Not readily degradable Bioaccumulative potential: Accumulation is not expected Other adverse effects: An accumulation in aquatic organisms is not expected Other information: LC0: >82.8 mg/l (zebra fish, 48h)</p>
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Isobutyl Isobutyrate (CAS 97-85-8)

Toxicity to fish: LC50, 96h (rainbow trout, semi-static test): 8.27 mg/l

Acute aquatic toxicity assessment: Toxic to aquatic life

Chronic aquatic toxicity assessment: Harmful to aquatic life with long lasting effects

Ozone-depletion potential: Remarks: this product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the US Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A+B)

Section 13: Disposal Considerations**Waste Treatment Methods:** Discharging waste into rivers and drains is forbidden. Incinerate at a licensed installation. Disposal must be made according to federal, state, and local regulations**Empty Container Precautions:** Dispose of container and unused contents in accordance with federal, state, and local requirements. Contaminated packaging materials must be disposed of in the same manner as the product.
Allow it to drain thoroughly. Thoroughly emptied and clean packagings may be recycled. Do not heat or cut container with electric or gas torch. Label precautions also apply to this container when empty.**Section 14: Transport Information****DOT (Department of Transportation):** Proper Shipping Name: Resin solution (contains Isobutyl Isobutyrate)
Hazard Class or Division: 3
UN/NA Number: UN1866
Packaging Group: III
Hazard Label(s): Flammable liquid
Reportable quantity: 484 kg (1067 lb)**IMDG (International Maritime Dangerous Goods):** Proper Shipping Name: Resin solution (contains Isobutyl Isobutyrate)
Hazard Class or Division: 3
UN Number: UN1866
Packaging Group: III
Hazard Label(s): Flammable liquid**IATA (International Air Transport Association):** Proper Shipping Name: Resin solution (contains Isobutyl Isobutyrate)
Hazard Class or Division: 3
UN Number: UN1866
Packaging Group: III
Hazard Label(s): Flammable liquid**Section 15: Regulatory Information****United States Federal Regulations:** US Toxic Substances Control Act: listed on the active portion of the TSCA Inventory
US EPA CERCLA Hazardous Substances (40 CFR 32) components: None**SARA Section 311/312 Hazard Categories:** SARA 302 - Extremely Hazardous Substances: None
SARA 313 - PBT Chemical Listing: None**State Right-to-Know Information:** Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists:
HDI Homopolymer: CAS 28182-81-2
Hexamethylene-1,6-diisocyanate: CAS 822-06-0
Isobutyl Isobutyrate: CAS 97-85-8



California Prop 65:

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

US EPA RCRA Composit List of Hazardous Wastes and Appendix VIII Hazardous Constituents (40 CFR 261):

Under RCRA, it is the responsibility of the person who generates a solid waste, as defined in 40 CFR 261.2, to determine if that waste is a hazardous waste.

Section 16: Other Information

Revision Date: 9/1/22

HMIS Rating

Health:	2
Flammability:	2
Reactivity:	0
Physical hazard:	C

Prepared by Terrazzo & Marble Supply Companies.

Data and recommendations presented herein are based upon ours and other researchers and are believed to be