

Safety Data Sheet (SDS)

Revision Date: 02/2020

Section 1: Product and Company Identification

Product Name: Terroxy® Resin Systems — Terrazzo Primer, Part B

Product Use Description: Curing Agent, Epoxy

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 corrosion – Category 1B

Skin sensitization – Category 1 Serious eye damage – Category 1 Reproductive toxicity– Category 2 Acute toxicity – Category 4

Classification according to Regulation (EC) No 1272/2008

GHS Label elements:

Hazard Pictogram:







Signal Word: Warning

Hazard Statements: H302 Harmful if swallowed

H314 Causes severe skin burns and eye damage

H332 Harmful if inhaled

H335 May cause respiratory irritation

Precautionary Statements: P261 Avoid breathing mist/vapors/spray

P264 Wash hands and skin contact areas thoroughly after handling

P272 Contaminated work clothing should not be allowed out of the workplace P273 Avoid

release to the environment

P280 Wear protective gloves/eye/face protection

P301, P330, P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P301. P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you fell unwell P303, P353, P361 IF ON SKIN: Remove/take off immediately all contaminated clothing. Rinse

skin with water/shower

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

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
Nonylphenol	25154-52-3	35.0% - 45.0%
Formaldehyde, Polymer with		
Benzeneamine Hydrogenated	135108-88-2	20.0% - 30.0%
Benzyl Alcohol	100-51-6	5.0% - 15.0%
Tetraethylenepentamine (TEPA)	112-57-2	3.0% - 8.0%
Tris-2,4,6 (Dimethylaminomethyl)		
Phenol	90-72-2	1.0% - 5.0%

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.

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Swallowing this corrosive material may result in severe ulceration, inflammation and possible perforation of the upper alimentary tract, with hemorrhage and fluid loss. Aspiration of this product during induced emesis can result in severe lung injury. If evacuation of stomach is necessary, use method least likely to cause aspiration, such as gastric lavage after endotracheal intubation. Contact a Poison Control Center for additional treatment

information.

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: Flush at once with potable water for at least 15 minutes. DO NOT attempt to neutralize with

chemical agents. Get immediate medical attention. Remove contaminated clothes. Wash before reuse. Destroy contaminated shoes. Get medical attention if swelling and/or irritation

occurs.

Ingestion: Give water to dilute stomach contents. DO NOT induce vomiting. If vomiting occurs, give fluids

again. Get immediate medical attention. Do not give anything by mouth to an unconscious

or convulsing person.

Inhalation: Move to fresh air. Get medical attention if effects persist.

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Section 5: Fire Fighting Measures

Suitable extinguishing media: Alcohol-resistant foam

Carbon dioxide (CO2)

Dry chemical Dry sand

Limestone powder

Specific hazards: May generate ammonia gas. May generate toxic nitrogen oxide gases. Use of water may

result in the formation of very toxic aqueous solutions. Do not allow run-off from fire fighting to enter drains or water courses. Incomplete combustion may form carbon monoxide. Downwind personnel must be evacuated. Burning produces obnoxious and toxic fumes.

Special protective

equipment for fire-fighters: Avoid contact with the skin. A face shield should be worn. Use personal protective equipment.

Wear positive pressure self contained breathing equipment. Use water to cool containers

exposed to fire. Water may be an ineffective extinguishing agent.

Further information: Vapors are heavier than air and may travel along the ground or be moved by ventilation

to ignition sources at locations distant from material handling point. Pressure may build up in

containers and create an explosion hazard.

OSHA Flamability Class: Combustible Class III B

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: 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.

Technical Measures

/Precautions: Do not store in reactive metal containers.

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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
Nonylphenol	Not Established	Not Established
Formaldehyde, Polymer with Benzeneamine Hydrogenated	Not Established	Not Established
Benzyl Alcohol	Not Established	Not Established
Tetraethylenepentamine (TEPA)	Not Established	Not Established
Tris-2,4,6 (Dimethylaminomethyl) Phenol	Not Established	Not Established

Section 9: Physical and Chemical Properties

Form: Liquid.
Color: Dark amber

Odor: Amine-like. Slight amonia odor.

Relative density: 0.99 (H2O = 1)

Vapor pressure: < 2.00 mmHg at 70 °F (21 °C)

VOC: 0.0

Density: 61.179 lb/ft3 (0.99 g/cm3) at 70 °F (21 °C)

pH: 10

Boiling point/Range: $> 300 \, ^{\circ}\text{F} \, (148 \, ^{\circ}\text{C})$ Flash point: $> 200 \, ^{\circ}\text{F} \, (93 \, ^{\circ}\text{C})$

Water solubility: Slight

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Section 10: Reactivity Data

Stability: Stable under normal conditions.

Conditions to Avoid: Not Applicable.

Materials to Avoid: Product slowly corrodes copper, aluminum, zinc and galvanized surfaces.

Reaction with peroxides may result in violent decomposition of peroxide possibly creating an

explosion.

Sodium hypochlorite.

Organic acids (i.e. acetic acid, citric acid etc.).

Mineral acids.

Reactive metals (e.g. sodium, calcium, zinc etc.) Nitrous acid and other nitrosating agents. Materials reactive with hydroxyl compounds.

Oxidizing agents.

Epoxy resins under uncontrolled conditions.

Hazardous

Decomposition Products: Nitric acid.

Ammonia

Nitrogen oxides (NOx).

Nitrogen oxide can react with water vapors to form corrosive nitric acid.

Carbon monoxide. Carbon dioxide (CO2).

Aldehydes

Flammable hydrocarbon fragments (e.g., acetylene).

When exposed to fire, oxides of Carbon and Nitrogen will be generated.

Hazardous Polymerization: Will not occur.

Section 11: Toxicological Information

Acute Health Hazard

Ingestion: LD50 : > 500 mg/kg

Species: Rat

Method: Estimated

Inhalation: LC50(1H) :> 20 mg/l

Species: Rat

Method: Estimated

Skin.: LD50 : > 2,000 mg/kg

Species: Rabbit. **Method:** Estimated.

Eye irritation/corrosion: Severe eye irritation.

Acute dermal

irritation/corrosion: Severe skin irritation. Corrosive to the skin of a rabbit.

Sensitization: Sensation has occurred in laboratory animals after repeated exposure.

Chronic Health Hazard

The product or a component may be mutagenic, the data is inconclusive. Mixed Polycycloaliphatic amines was tested in rats for systemic effects in a subchronic (28 day) oral study at doses ranging from 15 to 300 mg/kg/day. Effects seen at 300 mg/kg/day included decreased survival, decreased body weight gain, increased liver, kidney, and adrenal weights and histological changes in the liver, kidney, adrenals and spleen. The No-Observed-Adverse-Effect-Level (NOAEL) was 15 mg/kg/day. Rats exposed orally to 800 mg/kg benzyl alcohol for thirteen weeks exhibited CNS depression and histopathological changes in the brain, thymus and skeletal muscules. The No-Observed-Adverse-Effect-Level (NOAEL) was 400 mg/kg. No evidence of carcinogenicity was seen in a two-year study with rats and mice.

Section 12: Ecological Information

Ecotoxicity effects

Aquatic toxicity: No data available.

Toxicity to fish - Components:

Nonylphenol: LC50 (96 h): 0.128 mg/l Species: Fathead Minnow (Pimephales Promelas).

Toxicity to daphnia - Components:

Nonylphenol: EC50 (48 h): 0.0848 mg/l Species: Daphnia Nonylphenol: EC50 (48 h): 0.19 mg/l Species: Daphnia

Toxicity to other organisms:

No data available.

Persistence and degradability

Mobility: No data available.

Bioaccumulation: No data available.

Bioaccumulation - Components:

Nonylphenol: Moderate bioaccumulation potential.

Formaldehyde, polymer with

benzeneamine, hydrogenated:

Does not bioaccumulate

Section 13: Disposal Considerations

Waste from residues /

unused products: 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

CFR

Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (CYCLOALIPHATIC AMINES/NONYLPHENOL)

Class:

UN/ID No.:
UN2735
Packing group:
UN2735
III
NAERG No.:
153

IATA

Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (CYCLOALIPHATIC AMINES/NONYLPHENOL)

Class:

UN/ID No.: UN2735
Packing group: III

<u>IMDG</u>

Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (CYCLOALIPHATIC AMINES/NONYLPHENOL)

Class: 8
UN/ID No.: UN2735
Packing group: III

CTC

Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (CYCLOALIPHATIC AMINES/NONYLPHENOL)

Class: 8

UN/ID No.: UN2735 Packing group: III

Section 15: Regulatory Information

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

Country	Regulatory List	Notification
USA	TSCA	Included on Inventory
EU	EINECS	Included on EINECS inventory or polymer substance, monomers included on EINECS inventory are no longer polymer.
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

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, Corrosive Material

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Section 16: Other Information

HMIS Rating

Health: 3
Flammability: 1
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 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.

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