

Safety Data Sheet (SDS)

Revision Date: 01/2023

Section 1	: Product and	d Company	Identification
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Product Name:	Terroxy® Resin Systems — Iso-Crack Epoxy Membrane, Part B
Product Use Description:	Curing Agent, Epoxy
Company:	Terrazzo & Marble Supply Companies 77 South Wheeling Road Wheeling, Illinois 60090
Telephone: Emergency Telephone:	847.353.8000 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 Page	ulation (EC) No. 1272/2009

Classification according to Regulation (EC) No 1272/2008

GHS Label elements:

Hazard Pictogram:



Signal Word: Hazard Statements:	Warning 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	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.
Nonylphenol (Mixed Isomers)	25154-52-3	5.0% - 45.0%	
4,4'-Methylenebiscyclohexanamine	1761-71-3	5.0% - 15.0%	
Aliphatic Amines	Trade Secret	0.0% - 45.0%	
N/E - Not Established ALL ingredients are registered on TSCA The remaining components are trade secret.			Where proprietary ingredient is listed, the identity is available as provided in 29 CFR 1910.1200.

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.
Skin contact:	Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay. Initiate and maintain gentle and continuous irrigation until the patient receives medical care. Cover wound with sterile dressing. Take off contaminated clothing and shoes immediately. NOTE TO PHYSICIANS: Application of corticosteroid cream has been effective in treating skin irritation.
Ingestion:	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Prevent aspiration of vomit. Turn victim's head to the side.
Inhalation:	Move to fresh air.

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 for fire-fighters: self contained breathing apparatus for fire fighting if necessary.
Further information :	Do not allow run-off from fire fighting to enter drains or water courses. OSHA Flammability 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.

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.

Section 8: Exposure Controls / Personal Protection

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 Not Established Not Established Not Established Not Established	Personal Protective Equipment:				
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Nonylphenol Not Established Not Established	Exposure Limit:	Chomical Namo			
		4,4'-Methylenebiscyclohexanamine			

Not Established

Aliphatic Amines

Not Established



Section 9: Physical and Chemical Properties

Physical State: Color: Odor: Relative density: Vapor pressure: Density: V.O.C. pH: Boiling point/Range: Flash point: Water solubility:

Liquid. Light Yellow. Amine-like. Sharp amonia odor. 0.98 (H2O = 1)< 2.00 mmHg at 70°F (21°C) 61.179 lb/ft3 (0.98 g/cm3) at 70°F (21°C) 0 g/L 10.00 > 430°F (221°C) 303.0°F (150.56°C) Partially Soluble

Section 10: Reactivity Data

Stability : Conditions to Avoid: Materials to Avoid :	Stable under normal conditions. Contact with acids such as Hydrocholoric or Sulfuric. 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.) 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 :	> 1,620 mg/kg
Species:	Rat
Method:	Estimated
Inhalation:	LC50 (1 Hour): > 20 mg/L
Species:	Rat
Method:	Estimated
Skin. :	LD50 : > 1,000 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.

Section 12: Ecological Information

Ecotoxicity effects

Aquatic toxicity: No data available.

Toxicity to fish - Compo Nonylphenol:	onents: LC50 (96 h) : 0.128 mg/l	Species : Fathead Minnow (Pimephales Promelas).		
Methylenebiscyclohex	anamine, 4,4'- LC50 (96 h) : 46 - 100 mg/l	Species : Golden Orfe (Leuciscus idus).		
Toxicity to daphnia - C Nonylphenol: Nonylphenol:	omponents: EC50 (48 h) : 0.0848 mg/l EC50 (48 h) : 0.19 mg/l	Species : Daphnia Species : Daphnia		
Methylenebiscyclohexanamine, 4,4'- EC50 (48 h) : 6.84 mg/l Species : Daphnia Magna				
Toxicity to Algae - Components:				
Methylenebiscyclohex	anamine, 4,4'- EC50 (72 h) : 140 - 200 mg/l	Species : Algae		
Toxicity to other organisms: No data available.				

Persistence and degradability

Mobility:	No data available.		
Bioaccumulation:	No data available.		
Bioaccumulation - Components: Nonylphenol: Moderate bioaccumulation potential.			



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

<u>CFR</u> Proper shipping name: Class: UN/ID No.: Packing group: NAERG No.:	AMINES, LIQUID, CORROSIVE, N.O.S. (4,4'-Methylenebiscyclohexanamine, Nonylphenol) 8 UN2735 III 153
<u>IATA</u> Proper shipping name: Class: UN/ID No.: Packing group:	AMINES, LIQUID, CORROSIVE, N.O.S. (4,4'-Methylenebiscyclohexanamine, Nonylphenol 8 UN2735 III
<u>IMDG</u> Proper shipping name: Class: UN/ID No.: Packing group:	AMINES, LIQUID, CORROSIVE, N.O.S. (4,4'-Methylenebiscyclohexanamine, Nonylphenol) 8 UN2735 III
<u>CIC</u> Proper shipping name: Class: UN/ID No.: Packing group:	AMINES, LIQUID, CORROSIVE, N.O.S. (4,4'-Methylenebiscyclohexanamine, Nonylphenol) 8 UN2735 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

Section 16: Other Information

HMIS Rating

Health:	3
Flammability:	1
Reactivity:	0
Physical hazard:	С

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.