GARDEN GROVE

CITY OF GARDEN GROVE
FIRE DEPARTMENT

Tel: (714) 741-5600
Fax: (714) 741-5640

10/30/17

Chindamony Pak
SCS Engineers

RE: Records Search for: 12662 & 12632 Monarch St., Garden Grove CA

Enclosed are the records found concerning the history of the above-mentioned site(s), especially as it pertains to fire code violation history, permits, the use, storage, or disposal of hazardous substances, and the installation or removal of underground flammable or combustible liquid storage tanks.

The City of Garden Grove Fire Department has utilized its best efforts to locate the records requested. However, the City makes no representation as to the accuracy of the records or that all records requested were retained or located. The City does not provide records on spills, leaks or clean-up, as that information is provided through the County of Orange Health Dept.

Sincerely,

Brad Spell
Fire Captain/Senior Fire Protection Specialist

GARDEN GROVE

FIRE DEPARTMENT

HAZARDOUS MATERIALS DISCLOSURE PROGRAM

REPORTING FORMS PACKET

SHORT VERSION

FOR OFFICIAL USE ONLY

FACILITY ID NO. 8820

BUSINESS NAME Terrazzo & Marble Supply Co.

BUSINESS ADDRESS 1263Z Monarch St #B

APPROVED BY G DATE 3/9/11

NEW BUSINESS ☐ YES ☐ NO UPDATE _____

PICK __ 4D __ BUSLIST __ CALARP: __ CUPA: __ GIS __

FEE _____

Revised 2/2007

CITY OF GARDEN GROVE FIRE DEPARTMENT

11301 Acacia Parkway, Garden Grove, CA 92842 (714) 741-5600 (714) 741-5636

Hazardous Materials Business Information Form

FORM 1

BUSINESS INFORMATION

FACILITY # (Supplied by GGFD) 3 0 0 3 5	BEGINNING DATE 1: 10/7/2008	ENDING DATE 2: 12/31/2008	
BUSINESS NAME 4: Terrazzo & Marble Supply Company		BUSINESS PHONE 5: 714-901-1400	
BUSINESS SITE ADDRESS 6: 12632 Monarch St. Unit B			
CITY 7: GARDEN GROVE	STATE 8: CA	ZIP 9: 92841	
DUN & BRADSTREET 10: 01-028-4206	SIC CODE (4 DIGIT #) 11:	FIRE DISTRICT 12:	
COUNTY 13: ORANGE			
BUSINESS OPERATOR NAME 14: James Bateman		OPERATOR'S PHONE 15: 714-901-1400	

BUSINESS OWNER

OWNER NAME 16: Jody Rotondo		OWNER PHONE 17: [redacted]	
OWNER MAILING ADDRESS 18: [redacted]			
CITY 19: Wheeling	STATE 20: IL	ZIP 21: 60090	

ENVIRONMENTAL CONTACT

CONTACT NAME 22:	CONTACT PHONE 23:	
CONTACT MAILING ADDRESS 24:		
CITY 25:	STATE 26:	ZIP 27:

PRIMARY EMERGENCY CONTACTS SECONDARY

PRIMARY	SECONDARY
NAME 28: Chris Anderson	NAME 33: Tony Avila
TITLE 29: West Coast Regional Manager	TITLE 34: Warehouse Manager
BUSINESS PHONE 30: 714-901-1400	BUSINESS PHONE 35: 714-901-1400
24-HR. PHONE 31: [redacted]	24-HR. PHONE 36: [redacted]
PAGER # 32: N/A	PAGER # 37: N/A

ADDITIONAL LOCALLY COLLECTED INFORMATION

DESCRIBE THE TYPE OF BUSINESS OPERATION: 38 Wholesale Distributor of Terrazzo Products		TOTAL # OF EMPLOYEES 39: 3
BILLING ADDRESS (IF DIFFERENT FROM ABOVE) 40: [redacted]		ATTENTION 41: Bojana Lalovic
PROPERTY OWNER NAME 42: Jody Rotondo	ADDRESS 43: Wheeling, IL 60090	PHONE 44: [redacted]

Certification: Based on my inquiry of those individuals responsible for obtaining the information, I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete.

SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE 45: James Bateman	DATE 46: 10/7/2008
NAME OF SIGNER (print) 47: James Bateman	NAME OF DOCUMENT PREPARER (print 49: James Bateman
TITLE OF SIGNER 48: West Coast Regional Manager	TITLE OF DOCUMENT PREPARER 50: West Coast Regional Manager

CITY OF GARDEN GROVE
11301 ACACIA PARKWAY
GARDEN GROVE, CALIFORNIA 92842
(714) 741-5636

CUPA

BUSINESS ACTIVITIES

FACILITY INFORMATION

Page 1 of ___

I. FACILITY IDENTIFICATION

FACILITY ID#: 3 0 [redacted] 0 3 5 [redacted]

1. EPA ID # (Hazardous Waste Only): X

2.

BUSINESS NAME (Same as FACILITY NAME or DBA-Doing Business As): Terrazzo & Marble Supply Company

3.

II. ACTIVITIES DECLARATION

NOTE: If you check YES to any part of this list, please submit the Business Owner/Operator Identification page.

Does your facility...	If Yes, please complete these pages of the UPCF...		
A. HAZARDOUS MATERIALS			
Have on site (for any purpose) hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in ASTs and USTs); or the applicable Federal threshold quantity for an extremely hazardous substance specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70?	☒ YES ☐ NO	4.	✓ HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION (Form 3)
B. UNDERGROUND STORAGE TANKS (USTs)			
1. Own or operate underground storage tanks?	☐ YES ☒ NO	5.	✓ UST FACILITY (Formerly SWRCB Form A) ✓ UST TANK (one page per tank) (Formerly Form B)
2. Intent to upgrade existing or install new USTs?	☐ YES ☒ NO	6.	✓ UST FACILITY ✓ UST TANK (one per tank) ✓ UST INSTALLATION - CERTIFICATE OF COMPLIANCE (one page per tank) (Formerly Form C)
3. Need to report closing a UST?	☐ YES ☒ NO	7.	✓ UST TANK (closure portion-one page per tank)
C. ABOVE GROUND PETROLEUM STORAGE TANKS (ASTs)			
Own or operate ASTs above these thresholds: - any tank capacity is greater than 660 gallons, or - the total aggregate capacity for the entire facility (ASTs, drums and portable containers) greater than 1,320 gallons?	☐ YES ☒ NO	8.	✓ NO FORM REQUIRED TO CUPAS
D. HAZARDOUS WASTE			
1. Generate hazardous waste?	☐ YES ☒ NO	9.	✓ EPA ID NUMBER - provide at the top of this page
2. Recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC §25143.2)?	☐ YES ☒ NO	10.	✓ RECYCLABLE MATERIALS REPORT (one per recycler)
3. Treat hazardous waste on site?	☐ YES ☒ NO	11.	✓ ONSITE HAZARDOUS WASTE TREATMENT - FACILITY (Formerly DTSC Forms 1772) ✓ ONSITE HAZARDOUS WASTE TREATMENT - UNIT (one page per unit) (Formerly DTSC Forms 1772A,B,C,D and L)
4. Treatment subject to financial assurance requirements (for Permit by Rule and Condition Authorization)?	☐ YES ☒ NO	12.	✓ CERTIFICATION OF FINANCIAL ASSURANCE (Formerly DTSC Form 1232)
5. Consolidate hazardous waste generated at a remove site?	☐ YES ☒ NO	13.	✓ REMOTE WASTE/CONSOLIDATION SITE ANNUAL NOTIFICATION (Formerly DTSC Form 1196)
6. Need to report the closure/removal of a tank that was classified waste and cleaned onsite?	☐ YES ☒ NO	14.	✓ HAZARDOUS WASTE TANK CLOSURE CERTIFICATION (Formerly DTSC Form 1249)
E. LOCAL REQUIREMENTS			
Cal-ARP: California Accidental Release Prevention Program *H&SC Chapter 6.95, Article 2, §25531 et seq* --- Stationary Source with more than a Threshold Quantity of a Regulated Substance in a Process	☐ YES ☒ NO	15.	✓ REGULATED SUBSTANCE REPORTING FORM (Orange County CUPA)

GARDEN GROVE FIRE DEPARTMENT
HAZARDOUS MATERIALS DISCLOSURE PROGRAM
BUSINESS EMERGENCY PLAN

EMERGENCY NOTIFICATIONS:
A handler of hazardous materials is required to immediately report any release or threatened release of hazardous materials to the Garden Grove Fire Department. Failure to do so may result in criminal and/or civil prosecution.

REQUIRED NOTIFICATIONS:
In the event of a release or threatened release of hazardous materials, it is State law to notify each of the following agencies.

AGENCY	PHONE NUMBERS
Garden Grove Fire Department, Police, Paramedics	911
Office of Emergency Services (OES)	(800) 852-7550 or (916) 427-4341
National Response Center	(800) 424-8802
Individual responsible for calling these agencies: James Bateman	

Provide the following information when you call:

- Name of the person and business
- Business street address
- Location of the incident
- Type of incident (spill, gas release, etc.)
- The name(s) of the chemical substance(s) involved
- The amount of the chemical substance(s) involved
- The extent of injuries, if any
- Possible hazards to human health and/or the environment
- Emergency call-back phone number (714) 901-1400

If a chemical spill or release at your facility could create a toxic cloud or a liquid stream that could drift beyond your facility, then, identify nearby facilities that could be in imminent danger.

To the North
Facility _____ Phone ( )
Facility _____ Phone ( )
To the South
Facility _____ Phone ( )
Facility _____ Phone ( )
To the East
Facility _____ Phone ( )
Facility _____ Phone ( )
To the West
Facility _____ Phone ( )
Facility _____ Phone ( )

GARDEN GROVE FIRE DEPARTMENT
HAZARDOUS MATERIALS DISCLOSURE PROGRAM
BUSINESS EMERGENCY PLAN

OPTIONAL NOTIFICATIONS:

1. Hazardous Waste Contractor, Name: Affirmed Services (800) 400-6721
2. Insurance Company Name: Flaggler Insurance (312) 939-1515
3. Poison Control Center - 24-Hour 1 (800) 876-4766

EVACUATION PLANS AND PROCEDURES:

Evacuation Alarms - describe the type of alarm signals that will be used to start an evacuation at this facility (vocal, paging system, manual alarm, etc.):

Vocal - Only Two Employees. Notify other individual Exit the building at nearest Exit. Multiple Exit Doors Located at North and South end of building.

Evacuation Drills

Evacuation drills and records proving you have held such drills are required by California law. The drill record does NOT have to be provided to the Fire Department with this business plan, but shall be maintained for a period of three years and shall be available for review by Fire Department personnel. The record shall include the facilitator's name, title, facility location, date of drill, and the signature of the facilitator. For your convenience, a form for recording list information is included with this packet. Make additional copies as needed.

The following four forms:

A) Evacuation Drill Record

B) Emergency Coordinator Task Completion Sheet

C) Emergency Chemical Disclosure Form

D) Training Record

These forms are designed to assist you in organizing, planning and maintaining permanent records. They are to be retained at the business, and may be requested by emergency responders upon their arrival or during your annual fire inspection.

GARDEN GROVE FIRE DEPARTMENT

EVACUATION DRILL RECORD

Business Name: Terrazzo & Marble Supply Company

Street Address: 12632 Monarch St. Unit B
Garden Grove, CA 92841

Date of Evacuation Drill: _____

Brief Description of Drill: _____

Facilitator's Name: Tony Avila

Facilitator's Title: Warehouse Manager

I hereby certify, under penalty of perjury, that I facilitated the evacuation drill as described above.

Signature of Facilitator: _____

Date Signed: _____

Date of Evacuation Drill: _____

Brief Description of Drill: _____

Facilitator's Name: _____

Facilitator's Title: _____

I hereby certify, under penalty of perjury, that I facilitated the evacuation drill as described above.

Signature of Facilitator: _____

Date Signed: _____

THIS RECORD TO BE RETAINED AT THE BUSINESS.
MAKE ADDITIONAL COPIES OF THIS FORM AS NEEDED.

GARDEN GROVE FIRE DEPARTMENT
BUSINESS EMERGENCY PLAN

EVACUATION PLANNING

Describe the evacuation routes, emergency exits, and staging areas for employees in each work area at this facility. (A "staging area" is a specific location where your personnel meet after an evacuation, where you make sure everyone evacuated safely.)

1. Working area: Warehouse - North End
   Evacuation route: Exit Emergency Door on West Wall
   Emergency exits: 2
   Staging area: North of Building

2. Working area: Warehouse - South End
   Evacuation route: Exit Overhead Door on South Wall
   Emergency exits: 2
   Staging area: Parking Lot South of Building

3. Working area: Office
   Evacuation route: Exit Front Door on South of Building
   Emergency exits: 2
   Staging area: Parking Lot South of Building

4. Working area:
   Evacuation route:
   Emergency exits:
   Staging area:

5. Working area:
   Evacuation route:
   Emergency exits:
   Staging area:

MAKE ADDITIONAL COPIES OF THIS FORM AS NEEDED.

GARDEN GROVE FIRE DEPARTMENT
BUSINESS EMERGENCY PLAN

EMPLOYEE RESPONSIBILITIES:

Every business is required to develop an emergency plan. Part of this plan shall include the pre-assignment of important emergency duties to specific employees, and training of employees to carry out these emergency duties. Provide this information below for those employees who will carry out the emergency duties:

JOB TITLE: West Coast Regional Manager - James Bateman

EMERGENCY FUNCTION(S): Notify other Employee to Evacuate Building

a. Contact local authorities for proper emergency

b. Contact Headquarters office to Notify them of Emergency

c. _____

d. _____

JOB TITLE: Warehouse Manager - Tony Avila

EMERGENCY FUNCTION(S): Notify other Employee to Evacuate Building

a. James to carry out A & B from above responsibilities

b. _____

c. _____

d. _____

JOB TITLE: _____

EMERGENCY FUNCTION(S): _____

a. _____

b. _____

c. _____

d. _____

MAKE ADDITIONAL COPIES OF THIS FORM AS NEEDED.

GARDEN GROVE FIRE DEPARTMENT
BUSINESS EMERGENCY PLAN

TRAINING:

Every business handling hazardous materials above the minimum limits shall provide training for their employees in the following area:

A. Method for safe handling of hazardous materials.
B. Procedures for notification and coordination with emergency agencies, in the event of a spill or threatened spill.
C. Use of emergency response equipment and supplies under the control of the handler.
D. Emergency mitigation procedures in response to a release or threatened release hazardous material.
E. Tasks assigned to employees in the event of a hazardous materials emergency.
F. Evacuation procedures.

Describe the type of training programs you either are currently using or will use during the next year to provide the required employee training.

- Every Employee required to complete OSHA Haz mat Certification course.
- Every Employee provided Emergency contact list that includes local Authorities, Haz mat Emergency, and HQ info.
- Evacuation procedures to be discussed monthly with quarterly evacuation drills.
- Program developed by Mary Guzman @ HQ. She is in charge of HR and will be main point of contact for employees. All employees will be given her contact info.

MAKE ADDITIONAL COPIES OF THIS FORM AS NEEDED.

GARDEN GROVE FIRE DEPARTMENT
BUSINESS EMERGENCY PLAN

PREVENTION:

Part of the emergency pre-planning process is to identify potential hazards BEFORE an emergency, then either eliminate the hazard (if feasible) or prepare to handle the hazard should an emergency occur. To help you in this task, the form below is designed to help you identify potential hazards and to plan for minimizing the hazard. Complete this information for each hazardous materials storage location within your facility.

	HAZARDOUS MATERIALS STORAGE LOCATION	PREVENTATIVE MEASURE
1.	Rack #2	Handle products w/care
2.		
3.		
4.		
5.		
6.		
7.		
8.		

Comments relating to the listed storage areas:

All hazardous product to be store in the first 6 bays of Rack #2 on the 1st & 2nd shelves.

Prevention measures to be taken at this location:

Use caution when handling these products

Estimated date of completion: 10/28/08

Actual date of completion: 10/28/08

MAKE ADDITIONAL COPIES OF THIS FORM AS NEEDED.

GARDEN GROVE FIRE DEPARTMENT
BUSINESS EMERGENCY PLAN

A BUSINESS IS REQUIRED BY LAW TO NOTIFY THE GARDEN GROVE FIRE DEPARTMENT WITHIN 30 DAYS OF ANY OF THE FOLLOWING EVENTS:

1. Change of business address.
2. Change of business ownership.
3. Change of business name.
4. Cessation of business operation (quitting business).
5. Use or handling of a previously undisclosed hazardous material.
6. A 100% increase in the quantity of a previously disclosed hazardous material.

IN ADDITION, IF A BUSINESS HANDLES EXTREMELY (ACUTELY) HAZARDOUS MATERIALS, THE BUSINESS MUST NOTIFY THE GARDEN GROVE FIRE DEPARTMENT WITHIN 30 DAYS OF ANY OF THE FOLLOWING EVENTS:

1. A modification, change, or addition to your facility which either increases your usage of extremely hazardous materials by 10% or greater, or substantially increases the risk in handling extremely hazardous materials at that address.

Your business is required by State law to retain a copy of this entire Business Plan, chemical inventory, material safety data sheets and site maps, for review by Fire Department personnel. State where your Disclosure and Emergency Business Plan will be kept.

File Cabinet in the office near west wall. Bottom Drawer far left hand file folder.

Show location on site map also using symbol in the legend.

Note: A fee is charged for a replacement copy from the Garden Grove Fire Department.

I certify, under penalty of perjury, that the enclosed information is true and correct to the best of my knowledge.

Signature: James Bateman
Name: West Coast Regional Mgr.
Title: James Bateman
Date: 10/28/08

TERRAZZO & MARBLE SUPPLY COMPANIES

August 28, 2009
Garden Grove Fire Department
11301 Acacia Parkway
Garden Grove, CA 92840

Re: Updated Hazardous Material Disclosure

Dear Captain Janovick,

I have taken the following steps to accommodate the attached Hazardous Material Disclosure:

- Updated Form 3 of the Hazardous Materials Inventory form to accommodate new packaging.
- Purchased spill pallets & diatematious earth to assist in spill control.
- Placed appropriate placard on the outside of the facility.
- Updated Facility Map with new locations of additional product.

If you have any further questions or concerns regarding this matter please do not hesitate to contact me.

Best Regards,

James Bateman
West Coast Regional Manager

Golden Valley Office
7145 Sandburg Road
Golden Valley, MN 55427
Phone: 763.544.3333
Fax: 763.544.3334

Chicago Office
1220 W. Lake Street
Chicago, IL 60607
Phone: 312.421.4949
Fax: 312.421.5626

Garden Grove Office
12632 Monarch St. Unit B
Garden Grove, CA 92841
Phone: 714.901.1400
Fax: 714.901.1490

Northgate Office
464 Northgate Pkwy
Wheeling, IL 60090
Phone: 847.947.7300
Fax: 847.947.7301
800.7MARBLE

Wheeling Office
77 S. Wheeling Rd.
Wheeling, IL 60090
Phone: 847.353.8000
Fax: 847.353.8001
877.TM.SLABS

Hazardous Material Disclosure

Business Information / Chemical Inventory / Business Emergency Plan

GARDEN GROVE FIRE DEPARTMENT
11301 Acacia parkway
Garden Grove, CA 92840
Bus. (714) 741-5600 Fax (714) 741-5640
Hazardous Materials Coordinator
(714) 741-5636

Date: 6/11/09

Address: 12632 MONARCH File No:

Occupant or DBA: TERRAZZO & MARBLE

Owner/Manager: Phone: 714 901-1400

☐ California Health and Safety Code, Section 6.95, you are required to properly complete the Business Emergency Plan (BMP) packet. You are required to return the BEP packet, Hazardous Materials Disclosure Forms, and all material safety data sheets within fifteen (15) days to the Garden Grove Fire Department. HazMat Coord. (714) 741-5636

An inspection at the above location/occupancy revealed the following violation(s):

Violation(s): CA Health and Safety Code Chapter 6.95, Article 1 and Title 19, §2729 et seq., California Code of Regulations (CCR):

- ☐ Complete Hazardous Materials Disclosure packet, HSC Chapter 6.95, Title 19 Div 2 Chapter 3, CFC 8001.3.2
- ☐ Failure to submit a Business Emergency Plan. [HSC 25505(a)(1)]; CFC 8001.3.2
- ☐ Failure to review and/or revise the Business Emergency Plan as required [HSC 25505(b)&(c)]
- ☐ Chemical inventory is incomplete and/or requires update. [HSC 25509]
- ☐ The Emergency Response Plan is inadequate and/or does not address the following issues and shall be immediately revised and resubmitted: [HSC 25504(b)&(c)]
  - ☐ Notification Procedures
  - ☐ Mitigation Procedures
  - ☐ Evacuation Procedures
  - ☐ Employee Training
- ☐ Business Owner/Operator page is incomplete or needs to be updated. [HSC 25509]
- ☐ Failure to provide name, title, and 24-hour number of emergency contact(s). [HSC 25509(a)(7)]
- ☐ Site Map is incomplete or insufficient. [HSC 25509]
- ☐ Failure to report a release or threatened release. [HSC 25507]
- ☐ Failure to report a change in business or chemical inventory within 30 days of the following event(s): [HSC 25510]
  - ☐ 100% or more increase in the quantity of a disclosed material
  - ☐ Addition of a previously undisclosed material
  - ☐ Change in business address
  - ☐ Change in business ownership
  - ☐ Change of business name
  - ☐ Other (See comments below):

Violation(s): California Fire Code 2001, Articles 79 & 80, Title 19 Part 1 California Code of Regulations (CCR):

- ☒ Provide for secondary containment for hazardous materials liquids and solids (CFC 8003.1.3.3)
- ☒ Provide spill control for hazardous materials liquids (CFC 8003.1.3.2)
- ☐ Provide approved cabinet if more than 10 gallons of flammable liquids (CFC 7902.5)
- ☒ Provide placarding and signs (NFPA 704, CFC Article 79 §7901.9, Article 80 §8001.7-8)
- ☐ **No Violations Found**

Additional Violations and/or Notes:

- UPDATE HAZARDOUS MATERIAL PACKET FORM B INVENTORY
- 704 PLACARD
- SPILL CONTROL & MITIGATION PROCEDURES END of MONTH Aug

Responsible Party: James B Re-inspection Date: CALL WHEN COMPLETE

The above are violations of California law and require immediate correction. Failure to correct violations is subject to civil penalties.

Fire Dept. Inspector: CAPTAIN JANOUCK ID #: 421

Condition Upon Re-inspection: Date:

HAZARDOUS MATERIALS INVENTORY FORM

FORM 3

☒ ADD ☐ DELETE ☐ REVISED 1 Page 1 of 7 2

FACILITY ID# 3 0 0 3 5 38 BUSINESS NAME Terrazzo & Marble Supply 3

I. FACILITY INFORMATION

CHEMICAL LOCATION: Rack #2, 2nd & 3rd Bay, 1st & 2nd Shelves 4

CONFIDENTIAL LOCATION EPCRA ☐ Yes ☒ No 5 | MAP # 1 6 | GRID # 4C 7

II. CHEMICAL INFORMATION

CHEMICAL NAME: Terrazzo Matrix Part B | WASTE ☐ Yes 8 | TRADE SECRET ☒ Yes ☐ No 11 (* If EPCRA see instructions)

COMMON NAME: Curing Agent, Epoxy 9 | An EHS Chemical ☐ Yes ☒ No 12 (*If EHS is "Yes", all amounts must be LBS)

CAS # Mixture 10 | FIRE CODE HAZARD CLASSES (supplied by GGFD) 13

TYPE (Check one item only): ☐ a. PURE ☒ b. MIXTURE ☐ c. WASTE 14 | RADIOACTIVE ☐ Yes ☒ No 15 | CURIES 16

PHYSICAL STATE (Check one item only): ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS 17

FED HAZARD CATEGORIES: ☐ a. FIRE ☒ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 18

AVERAGE DAILY AMOUNT: 800 Gallons 19 | MAXIMUM DAILY AMOUNT: 1200 gallons 20 | ANNUAL WASTE AMOUNT: Ø 21 | STATE WASTE CODE: Ø 22

UNITS: ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 23 (*If EHS, amount must be in pounds) | DAYS ON SITE: 365 Days 24 | LARGEST CONTAINER: 55 gallon Drum 25

STORAGE CONTAINER (Check all that apply) 26:

☐ a. ABOVEGROUND TANK	☒ e. PLASTIC DRUM	☐ i. VAT	☐ m. CYLINDER	☐ q. TANK WAGON
☐ b. UNDERGROUND TANK	☐ f. NONMETALLIC DRUM	☐ j. FIBER DRUM	☐ n. GLASS CONTAINER	☐ r. RAIL CAR
☐ c. TANK INSIDE BLDG	☐ g. METAL CONTAINER	☐ k. BAG(S)	☒ o. PLASTIC CONTAINER	☐ s. TOTE BIN
☐ d. STEEL DRUM	☐ h. CARBOY	☐ l. BOX(S)	☐ p. IN MACH OR EQUIP	☐ t. OTHER_____

STORAGE PRESSURE: ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 27

STORAGE TEMPERATURE: ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 28

	%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1	<50% 29	Aliphatic Amines 30	☐ Yes ☒ No 31	112-24-3 32
2	<30% 29	Phenols 30	☐ Yes ☒ No 31	84852-15-3 32
3	<20% 29	Polyether diamine 30	☐ Yes ☒ No 31	9046-10-0 32
4	29	30	☐ Yes ☐ No 31	32
5	29	30	☐ Yes ☐ No 31	32

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

PLACARDING INFORMATION

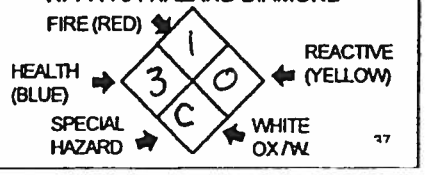
UNDOT # UN 2735 33
Refer to shipping papers or MSDS

DOT HAZARD CLASS 8 34
Refer to shipping papers or MSDS

EPCRA ☐ YES ☒ NO 35

X _____ 36
If EPCRA, Please Sign Here

NFPA 704 HAZARD DIAMOND 37



MAKE AS MANY COPIES OF CHEMICAL INVENTORY FORM AS NEEDED

Material Safety Data Sheet

Revision Date: 11/2007 Print Date: 11 2007

Section 1: Product and Company Identification

Product Name: Terroxy Resin Systems — Terrazzo Matrix, 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 Number: 800.424 9300 U S A
01.703 527.3887 International

Section 2: Composition / Information on Ingredients

Components	OSHA PEL	ACGIH TLV	Concentraion (Weight %)
Aliphatic Amines	N/E	N/E	<50
Phenols	N/E	N/E	<30
Polyetherdiamine	N/E	N/E	<20
Solvent	N/E	N/E	<12

- N E Not Established
- All ingredients are registered on TSCA

Composition is trade secret.

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 3: Hazards Identification

Emergency Overview:

Vapors can cause severe irritation of respiratory tract.
Vapors can cause irritation and burns to the eyes.
Can cause burns to skin
Can cause severe damage to mouth and throat.

Potential Health Effects:

Inhalation : Can cause severe eye, skin and respiratory tract burns

Eye contact : Causes eye burns. May cause blindness. Severe eye irritation

Skin contact : Harmful in contact with skin. Causes skin burns. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Ingestion : Harmful if swallowed. If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.

Chronic Health Hazard : This product contains no listed carcinogens according to IARC, ACGIH, NTP and or OSHA in concentrations of 0.1 percent or greater. Prolonged contact may result in chemical burns and permanent damage. Repeated or prolonged contact causes sensitization, asthma and eczemas

Section 3: Hazards Identification (continued)

Carcinogenicity:	NTP CARCINOGEN: No IARC MONOGRAPHS: No OSHA REGULATED No
Exposure Guidelines:	Target Organs: Skin, Eyes
Aggravated Medical Conditions	Skin contact may aggravate existing dermatitis (skin condition). Over exposure to vapor or mist may aggravate existing respiratory conditions such as asthma, bronchitis or fibrotic respiratory disease

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 :	Hold eyelids apart, initiate and maintain gentle and continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour.
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. If medical care is not promptly available, continue to irrigate for one hour. 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 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 Flamability Class: Combustible Class IIIB

Section 6: Accidential 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. Absorb spill with clay, diatomaceous earth or other absorbent materials. Place in disposal containers.
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. Emergency showers and eye wash stations should be readily accessible. 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

Engineering Measures:

Provide readily accessible eye wash stations and safety showers. Provide natural or explosion proof ventilation adequate to ensure concentrations are kept below exposure limits.

Personal Protective Equipment:

Respiratory Protection:	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). Not required for properly ventilated areas.
Ventilation:	Mechanical ventilation required if TLV is expected to be exceeded in confined areas.
Hand Protection:	Neoprene gloves. Butyl rubber gloves. Nitrile rubber. Impervious gloves. The breakthrough time of the selected glove(s) must be greater than the intended use period.
Eye Protection:	Wear splash proof chemical resistant goggles. Full face shield with goggles underneath.
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.
Environmental Exposure Controls:	Construct a dike to prevent spreading.
Special Instructions for Protection and Hygiene:	Discard contaminated leather articles. Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Provide readily accessible eye wash stations and safety showers. Wash at the end of each workshift and before eating, smoking or using the toilet.

Section 9: Physical and Chemical Properties

Form:	Liquid.
Color:	Yellow.
Odor:	Amine like. Sharp amonia odor.
Relative density:	0.96 (H2O = 1)
Vapor pressure:	1.10 mmHg at 70 F (21 C)
Density:	59.931 lb/ft^3 (0.96 g cm^3) at 70°F (21 C)
pH:	11.20
Boiling point/Range:	> 392 F (200°C)
Flash point:	287.6 F (142 C)
Water solubility:	Completely Soluble
Viscosity:	20 mPa.s at 77 F (25 C)

Section 10: Physical and Chemical Properties

Stability :	Stable under normal conditions
Conditions to Avoid:	Contact with acids such as Hydrocholoric or Sulfuric
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. CAUTION! N-Nitrosamies, many of which are known to be potent carcinogens, may be formed when the product comes in contact with nitrous acid, nitrites or atmospheres with high nitrious oxide concentrations. Reactive metals (e.g. sodium, calcium, zinc etc.) Nitrous acid and other nitrosating agents Materials reactive with hydroxyl compounds Oxidizing agents.
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 Nitrosamine
Hazardous Polymerization:	Will not occur.

Section 11: Toxicological Information

Acute Health Hazard

Ingestion: Species: Method:	LD50 : > 1,620 mg kg Rat Estimated
Inhalation:	No data available.
Skin. : Species: Method:	LD50 : > 2,000 mg kg Rabbit Estimated
Eye irritation/corrosion:	Severe eye irritation.
Acute dermal irritation/corrosion:	Severe skin irritation. Corrosive to the skin of a rabbit.
Sensitization:	Sensation has occured in labratory animals after repeated exposure

Chronic Health Hazard

Results from a battery of short term genotoxicity tests on this material or its components indicate mutagenic activity.

Section 12: Ecological Information

Ecotoxicity effects

Aquatic toxicity: *No data available*

Toxicity to fish - Components:

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

Toxicity to daphnia - Components:

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

DOT

Proper shipping name:	Amines, liquid, corrosive, n.o.s. (4,4'-Triethylenetetramine, Nonylphenol)
Class:	8
U.N. ID No.:	UN2735
Packing group:	III
NAERG No.:	153

IATA

Proper shipping name:	Amines, liquid, corrosive, n.o.s. (4,4'-Triethylenetetramin, Nonylphenol)
Class:	8
U.N. ID No.:	UN2735
Packing group:	III

IMDG

Proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S. (4,4'-Triethylenetetramin, Nonylphenol)
Class:	8
U.N. ID No.:	UN2735
Packing group:	III

TDG

Proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S. (4,4'-Triethylenetetramin, Nonylphenol)
Class:	8
U.N. 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	Not 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	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.

HAZARDOUS MATERIALS INVENTORY FORM

FORM 3

☒ ADD ☐ DELETE ☐ REVISED 1 Page 1 of 7 2

FACILITY ID# 30 035 38 BUSINESS NAME Terrazzo & Marble Supply 3

I. FACILITY INFORMATION

CHEMICAL LOCATION Rack #2, 5th Bay, 2nd Shelf 4

CONFIDENTIAL LOCATION EPCRA ☐ Yes ☒ No 5 MAP # 6 GRID # 3C 7

II. CHEMICAL INFORMATION

CHEMICAL NAME Primer, Part B WASTE ☐ Yes 8 TRADE SECRET ☒ Yes ☐ No 11
* If EPCRA see instructions

COMMON NAME Curing Agent, Epoxy 9 An EHS Chemical ☐ Yes ☒ No 12
*If EHS is "Yes", all amounts must be LBS

CAS # Mixture 10 FIRE CODE HAZARD CLASSES (supplied by GGFD) 13

TYPE (Check one item only) ☐ a. PURE ☒ b. MIXTURE ☐ c. WASTE 14 RADIOACTIVE ☐ Yes ☒ No 15 CURIES 16

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS 17 FED HAZARD CATEGORIES ☐ a. FIRE ☒ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 18

AVERAGE DAILY AMOUNT 70 gallons 19 MAXIMUM DAILY AMOUNT 200 gallons 20 ANNUAL WASTE AMOUNT Ø 21 STATE WASTE CODE Ø 22

UNITS ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 23 *If EHS, amount must be in pounds. DAYS ON SITE 365 Days 24 LARGEST CONTAINER 5 gallon pail 25

STORAGE CONTAINER (Check all that apply) 26
☐ a. ABOVEGROUND TANK ☐ b. UNDERGROUND TANK ☐ c. TANK INSIDE BLDG ☐ d. STEEL DRUM ☐ e. PLASTIC DRUM ☐ f. NONMETALLIC DRUM ☐ g. METAL CONTAINER ☐ h. CARBOY ☐ i. VAT ☐ j. FIBER DRUM ☐ k. BAG(S) ☐ l. BOX(S) ☐ m. CYLINDER ☒ n. GLASS CONTAINER ☐ o. PLASTIC CONTAINER ☐ p. IN MACH OR EQUIP ☐ q. TANK WAGON ☐ r. RAIL CAR ☐ s. TOTE BIN ☐ t. OTHER_____

STORAGE PRESSURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 27

STORAGE TEMPERATURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 28

	%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1	25-40 29	Nonylphenol 30	☐ Yes ☒ No 31	25154-52-3 32
2	20-30 29	Formaldehyde, Polymer w/Benzenemine Hydrogenated 30	☐ Yes ☒ No 31	135108-88-2 32
3	5-15 29	Benzyl Alcohol 30	☐ Yes ☒ No 31	100-51-6 32
4	29	30	☐ Yes ☐ No 31	32
5	29	30	☐ Yes ☐ No 31	32

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

PLACARDING INFORMATION

UNDOT # UN 2735 33
Refer to shipping papers or MSDS

DOT HAZARD CLASS 8 34
Refer to shipping papers or MSDS

EPCRA ☐ YES ☒ NO 35

X _____ 36
If EPCRA, Please Sign Here

NFPA 704 HAZARD DIAMOND 37
FIRE (RED) 1
HEALTH (BLUE) 3
REACTIVE (YELLOW) 0
SPECIAL HAZARD C
WHITE OX/W

MAKE AS MANY COPIES OF CHEMICAL INVENTORY FORM AS NEEDED

Revised 2/02 -- haz-inven2.doc

Material Safety Data Sheet

Revision Date: 01/2008 Print Date: 01/2008

Section 1: Product and Company Identification

Product Name: Terroxy' Resin Systems — 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 Number: 800.424.9300 USA
01.703.527.3887 International

Section 2: Composition / Information on Ingredients

Components	CAS Number	OSHA PEL	ACGIH TLV	WT%
Nonylphenol	25154-52-3	N/E	N/E	25-40
Formaldehyde, Polymer with Benzeneamine Hydrogenated	135108-88-2	N/E	N/E	20-30
Benzyl Alcohol	100-51-6	N/E	N/E	5-15
Tetraethylenepentamine (TEPA)	112-57-2	N/E	N/E	3-8
Tris-2,4,6 (Dimethylaminomethyl) Phenol	90-72-2	N/E	N/E	1-5

- N/E Not Established
- All ingredients are registered on TSCA

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 3: Hazards Identification

Emergency Overview: Vapors can cause severe irritation of respiratory tract.
Vapors can cause irritation and burns to the eyes.
Can cause irritation to skin
Can cause severe damage to mouth and throat.

Potential Health Effects

Inhalation : Headache, nausea, respiratory tract irritant.

Eye contact : Can cause irritation, burning, tearing, redness, swelling and possible chemical burns to the eyes.

Skin contact : Severe irritation and possible skin sensitizer.

Ingestion : Abdominal pain, nausea, vomiting, diarrhea, throat and mouth burns.

Chronic Health Hazard : Skin contact may aggravate existing dermatitis (skin condition). Over exposure to vapor or mist may aggravate existing respiratory conditions such as asthma, bronchitis or fibrotic respiratory disease.

Section 3: Hazards Identification (continued)

Carcinogenicity:	NTP CARCINOGEN: No IARC MONOGRAPHS: No OSHA REGULATED No
Exposure Guidelines:	Target Organs: Skin, Eyes
Aggravated Medical	Skin contact may aggravate existing dermatitis (skin condition). Over exposure to vapor or mist may aggravate existing respiratory conditions such as asthma, bronchitis or fibrotic respiratory disease.

Section 4: First Aid Measures

General advice:	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 at once with potable water for at least 15 minutes. DO NOT attempt to neutralize with chemical agents. Get 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.

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	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: Accidential Release Measures

Personal precautions:	Use positive pressure self contained breathing equipment 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 Air Products Emergency 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. Emergency showers and eye wash stations should be readily accessible. 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

Engineering Measures:

Provide readily accessible eye wash stations and safety showers. Provide natural or explosion proof ventilation adequate to ensure concentrations are kept below exposure limits.

Personal Protective Equipment:

Respiratory Protection: 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 C FR 1910 134). Not required for properly ventilated areas.

Ventilation: Mechanical ventilation required if TLV is expected to be exceeded in confined areas.

Hand Protection:
Neoprene gloves.
Butyl-rubber gloves.
Nitrile rubber.
Impervious gloves.
The breakthrough time of the selected glove(s) must be greater than the intended use period.

Eye Protection:
Wear splash proof chemical resistant goggles.
Full face shield with goggles underneath.

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.

Environmental Exposure Controls: Construct a dike to prevent spreading.

Special Instructions for Protection and Hygiene: Discard contaminated leather articles. Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Provide readily accessible eye wash stations and safety showers. Wash at the end of each workshift and before eating, smoking or using the toilet.

Section 9: Physical and Chemical Properties

Color:	Dark amber liquid with slight ammoniacal odor
Odor:	Amine like. Sharp amonia odor.
Relative density:	0.99 (H2O = 1)
Vapor pressure:	< 2.00 mmHg at 70 °F (21 °C)
VOC:	0.00
Density:	61.79 lb/ft3 (0.99 g cm3) at 70 °F (21 °C)
pH:	10
Boiling point/Range:	> 300 °F (148 °C)
Flash point:	>200 °F (93 °C)
Water solubility:	Slight

Section 10: Physical and Chemical Properties

Stability :	Stable under normal conditions.
Conditions to Avoid:	Not Applicable
Materials to Avoid :	Sodium hypochlorite. Organic acids (i.e. acetic acid, citric acid etc.) Mineral acids. Product slowly corrodes copper, aluminum, zinc and galvanized surfaces. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. 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 : > 500 mg/kg Species: Rat Method: Estimated
Inhalation:	LC50 (1 h) : > 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.
Sensitization:	May cause sensitization by skin contact. Sensitization has occured in laboratory animals after repeated exposures.

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 on the product itself.*

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 on the product itself.*

Persistence and degradability

Mobility: *No data available*

Bioaccumulation: *No data available on the product itself.*

Bioaccumulation - Components:

Formaldehyde, polymer with benzeneamine, hydrogenated: Does not bioaccumulate.

Nonylphenol: Moderate bioaccumulation potential.

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 Amine/Nonylphenol)
Class:	8
UN ID No.:	UN2735
Packing group:	III
NAERG No.:	153

IATA

Proper shipping name:	Amines, liquid, corrosive, N.O.S. (Cycloaliphatic Amine/Nonylphenol)
Class:	8
UN ID No:	UN2735
Packing group:	III

IMDG

Proper shipping name:	Amines, liquid, corrosive, N.O.S. (Cycloaliphatic Amine/Nonylphenol)
Class:	8
UN ID No:	UN2735
Packing group:	III

CTC

Proper shipping name:	Amines, liquid, corrosive, N.O.S. (Cycloaliphatic Amine/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.

U.S. 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: 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.

HAZARDOUS MATERIALS INVENTORY FORM

FORM 3

☒ ADD ☐ DELETE ☐ REVISED 1 Page 1 of 7 2

FACILITY ID# 30 035 38 BUSINESS NAME Terrazzo & Marble Supply 3

I. FACILITY INFORMATION

CHEMICAL LOCATION Rack #2, 4th & 5th Bay, 1st & 2nd Shelves 4

CONFIDENTIAL LOCATION EPCRA ☐ Yes ☒ No 5 MAP # 1 6 GRID # 3C 7

II. CHEMICAL INFORMATION

CHEMICAL NAME Isocrack Epoxy Membrane, Part B WASTE ☐ Yes 8 TRADE SECRET ☒ Yes ☐ No 11 * If EPCRA see instructions

COMMON NAME Curing Agent, Epoxy 9 An EHS Chemical ☐ Yes ☒ No 12 *If EHS is "Yes", all amounts must be LBS

CAS # Mixture 10 FIRE CODE HAZARD CLASSES (supplied by GGFD) 13

TYPE (Check one item only) ☐ a. PURE ☒ b. MIXTURE ☐ c. WASTE 14 RADIOACTIVE ☐ Yes ☒ No 15 CURIES 16

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS 17 FED HAZARD CATEGORIES ☐ a. FIRE ☒ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 18

AVERAGE DAILY AMOUNT 400 gallons 19 MAXIMUM DAILY AMOUNT 600 gallons 20 ANNUAL WASTE AMOUNT Ø 21 STATE WASTE CODE Ø 22

UNITS ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 23 *If EHS, amount must be in pounds. DAYS ON SITE 365 Days 24 LARGEST CONTAINER 55 gallon Drum 25

STORAGE CONTAINER (Check all that apply) ☐ a. ABOVEGROUND TANK ☐ b. UNDERGROUND TANK ☐ c. TANK INSIDE BLDG ☐ d. STEEL DRUM ☒ e. PLASTIC DRUM ☐ f. NONMETALLIC DRUM ☐ g. METAL CONTAINER ☐ h. CARBOY ☐ i. VAT ☐ j. FIBER DRUM ☐ k. BAG(S) ☐ l. BOX(S) ☐ m. CYLINDER ☒ n. PLASTIC CONTAINER ☐ p. IN MACH OR EQUIP ☐ q. TANK WAGON ☐ r. RAIL CAR ☐ s. TOTE BIN ☐ t. OTHER 26

STORAGE PRESSURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 27

STORAGE TEMPERATURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 28

	%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1	45-55 29	Nonylphenol 30	☐ Yes ☒ No 31	25154-52-3 32
2	5-15 29	Aliphatic Amines 30	☐ Yes ☒ No 31	1761-71-3 32
3	29	30	☐ Yes ☐ No 31	32
4	29	30	☐ Yes ☐ No 31	32
5	29	30	☐ Yes ☐ No 31	32

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

PLACARDING INFORMATION

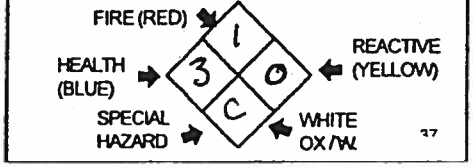
UNDOT # UN 2735 33
Refer to shipping papers or MSDS

DOT HAZARD CLASS 8 34
Refer to shipping papers or MSDS

EPCRA ☐ YES ☒ NO 35

X _____ 36
If EPCRA, Please Sign Here

NFPA 704 HAZARD DIAMOND 37



MAKE AS MANY COPIES OF CHEMICAL INVENTORY FORM AS NEEDED

Material Safety Data Sheet

Revision Date: 11/2007

Print Date: 11/2007

Section 1: Product and Company Identification

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: 847.353.8000

Emergency Telephone Number: 800.424.9300 USA
01.703.527.3887 International

Section 2: Composition / Information on Ingredients

Components	CAS #	OSHA PEL	ACGIH TLV	Concentraion (Weight)
Nonylphenol	25154-52-3	N/E	N/E	45-55
Aliphatic Amines	1761-71-3	N/E	N/E	5-15 ·

- N/E - Not Established
- ALL ingredients are registered on TSCA

The remaining components are trade secret.

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 3: Hazards Identification

Emergency Overview:

Vapors can cause severe irritation of respiratory tract.
Vapors can cause irritation and burns to the eyes.
Can cause burns to skin
Can cause severe damage to mouth and throat.

Potential Health Effects:

Inhalation : Can cause severe eye, skin and respiratory tract burns.

Eye contact : Causes eye burns. May cause blindness. Severe eye irritation.

Skin contact : Harmful in contact with skin. Causes skin burns. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Ingestion : Harmful if swallowed. If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.

Chronic Health Hazard : This product contains no listed carcinogens according to IARC, ACGIH, NTP and or OSHA in concentrations of 0.1 percent or greater. Prolonged contact may result in chemical burns and permanent damage. Repeated or prolonged contact causes sensation, asthma and eczemas.

Section 3: Hazards Identification (continued)

Carcinogenicity:	NTP CARCINOGEN: No IARC MONOGRAPHS: No OSHA REGULATED: No
Exposure Guidelines:	Target Organs: Skin, Eyes
Aggravated Medical Conditions:	Skin contact may aggravate existing dermatitis (skin condition). Over exposure to vapor or mist may aggravate existing respiratory conditions such as asthma, bronchitis or fibrotic respiratory disease.

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 :	Hold eyelids apart, initiate and maintain gentle and continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour.
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. If medical care is not promptly available, continue to irrigate for one hour. 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 (CO_2). 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 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 Flamability Class: Combustible Class III B

Section 6: Accidential 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 Air Products Emergency 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. Emergency showers and eye wash stations should be readily accessible. 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

Engineering Measures:

Provide readily accessible eye wash stations and safety showers. Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits

Personal Protective Equipment:

Respiratory Protection: 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). Not required for properly ventilated areas.

Ventilation: Mechanical ventilation required if TLV is expected to be exceeded in confined areas.

Hand Protection: Neoprene gloves.
Butyl rubber gloves.
Nitrile rubber.
Impervious gloves.
The breakthrough time of the selected glove(s) must be greater than the intended use period.

Eye Protection: Wear splash-proof chemical resistant goggles
Full face shield with goggles underneath.

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.

Environmental Exposure Controls: Construct a dike to prevent spreading.

Special Instructions for Protection and Hygiene: Discard contaminated leather articles. Remove contaminated clothing. Drench affected area with water for at least 15 minutes Provide readily accessible eye wash stations and safety showers. Wash at the end of each workshift and before eating, smoking or using the toilet

Section 9: Physical and Chemical Properties

Color:	Light yellow.
Odor:	Amine like. Sharp amonia odor.
Relative density:	0.98 (H2O = 1)
Vapor pressure:	< 2.00 mmHg at 70° F (21° C)
VOC:	0.00
Density:	61.179 lb/ft3 (0.98 g/cm3) at 70° F (21° C)
pH:	10
Boiling point/Range:	> 430 °F
Flash point:	303° F (150.56° C)
Water solubility:	Partial

Section 10: Physical and Chemical Properties

Stability : Stable under normal conditions.

Conditions to Avoid: Contact with acids such as Hydrocholoric or Sulfuric.

Materials to Avoid :
Sodium hypochlorite.
Organic acids (i.e. acetic acid, citric acid etc.).
Mineral acids.
Product slowly corrodes copper, aluminum, zinc and galvanized surfaces.
Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion.
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 h) : > 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: May cause sensitization by skin contact.

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 - Components:

Nonylphenol	LC50 (96 h) : 0.128 mg/l	Species : Fathead Minnow (Pimephales Promelas)
Methylenebiscyclohexanamine, 4,4'-	LC50 (96 h) : 46 - 100 mg/l	Species : Golden Orfe (Leuciscus idus)

Toxicity to daphnia - Components:

Nonylphenol	EC50 (48 h) : 0.0848 mg/l	Species : Daphnia
Nonylphenol	EC50 (48 h) : 0.19 mg/l	Species : Daphnia
Methylenebiscyclohexanamine, 4,4'-	EC50 (48 h) : 6.84 mg/l	Species : Daphnia magna.

Toxicity to algae - Components:

Methylenebiscyclohexanamine, 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 is available on the product itself

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

CFR

Proper shipping name:	Amines, liquid, corrosive, n.o.s. (4,4' Methylenebiscyclohexanamine, Nonylphenol)
Class:	8
UN ID No.:	UN2735
Packing group:	III
NAERG No.:	153

IATA

Proper shipping name:	Amines, liquid, corrosive, n.o.s. (4,4' Methylenebiscyclohexanamine, Nonylphenol)
Class:	8
UN ID No.:	UN2735
Packing group:	III

IMDG

Proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S. (4,4' Methylenebiscyclohexanamine, Nonylphenol)
Class:	8
UN ID No.:	UN2735
Packing group:	III

CTC

Proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S. (4,4' Methylenebiscyclohexanamine, 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

FPA SARA Title III Section 312 (40 CFR 370) Hazard Classification:
Acute Health Hazard

FPA SARA Title III Section 313 (40 CFR 372) Component(s) above 'de minimus' level:
None.

U.S. 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: 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.

HAZARDOUS MATERIALS INVENTORY FORM

FORM 3

☒ ADD ☐ DELETE ☐ REVISED 1 Page 1 of 4 2

FACILITY ID# 30 035 38 BUSINESS NAME Terrazzo & Marble Supply 3

I. FACILITY INFORMATION

CHEMICAL LOCATION: Rack #2, 6th Bay, 2nd Shelf 4

CONFIDENTIAL LOCATION EPCRA ☐ Yes ☒ No 5 MAP # 1 6 GRID # 3C 7

II. CHEMICAL INFORMATION

CHEMICAL NAME: Clear Resin Hardener, Part B WASTE ☐ Yes 8 TRADE SECRET ☒ Yes ☐ No 11 * If EPCRA see instructions

COMMON NAME: Curing Agent, Epoxy 9 An EHS Chemical ☐ Yes ☒ No 12 *If EHS is "Yes", all amounts must be LBS

CAS #: Mixture 10 FIRE CODE HAZARD CLASSES (supplied by GGFD) 13

TYPE (Check one item only) ☐ a. PURE ☒ b. MIXTURE ☐ c. WASTE 14 RADIOACTIVE ☐ Yes ☒ No 15 CURIES 16

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS 17 FED HAZARD CATEGORIES ☐ a. FIRE ☒ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 18

AVERAGE DAILY AMOUNT: 50 gallons 19 MAXIMUM DAILY AMOUNT: 100 gallons 20 ANNUAL WASTE AMOUNT: Ø 21 STATE WASTE CODE: Ø 22

UNITS ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 23 *If EHS, amount must be in pounds. DAYS ON SITE: 365 Days 24 LARGEST CONTAINER: 5 gallon Pail 25

STORAGE CONTAINER (Check all that apply) 26
☐ a. ABOVEGROUND TANK ☐ b. UNDERGROUND TANK ☐ c. TANK INSIDE BLDG ☐ d. STEEL DRUM ☐ e. PLASTIC DRUM ☐ f. NONMETALLIC DRUM ☐ g. METAL CONTAINER ☐ h. CARBOY ☐ i. VAT ☐ j. FIBER DRUM ☐ k. BAG(S) ☐ l. BOX(S) ☐ m. CYLINDER ☐ n. GLASS CONTAINER ☒ o. PLASTIC CONTAINER ☐ p. IN MACH OR EQUIP ☐ q. TANK WAGON ☐ r. RAIL CAR ☐ s. TOTE BIN ☐ t. OTHER

STORAGE PRESSURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 27

STORAGE TEMPERATURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 28

	%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1	<25 29	Isophoronediamine (IPD) 30	☐ Yes ☒ No 31	2855-13-2 32
2	<26 29	Benzyl Alcohol 30	☐ Yes ☒ No 31	100-51-6 32
3	<14 29	Nonylphenol 30	☐ Yes ☒ No 31	25154-52-3 32
4	29	30	☐ Yes ☐ No 31	32
5	29	30	☐ Yes ☐ No 31	32

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

PLACARDING INFORMATION

UNDOT # UN 2735 33
Refer to shipping papers or MSDS

DOT HAZARD CLASS 8 34
Refer to shipping papers or MSDS

EPCRA ☐ YES ☒ NO 35

X _____ 36
If EPCRA, Please Sign Here

NFPA 704 HAZARD DIAMOND 37
FIRE (RED) 1
HEALTH (BLUE) 3
REACTIVE (YELLOW) 0
SPECIAL HAZARD C
WHITE OX/W

MAKE AS MANY COPIES OF CHEMICAL INVENTORY FORM AS NEEDED

Material Safety Data Sheet

Product Name: Terroxy Resin Systems — Clear Resin Hardener, Part B

Section 1: Manufacturer Identification

Manufacturer's Name:	Terrazzo & Marble Supply Companies		
Address:	77 South Wheeling Road, Wheeling, Illinois 60090 USA		
Emergency Number:	800.424.9300	Date Printed:	04 04
Information Number:	847.353.8000	Preparer:	W. Gallinaitis

Section 2: Hazardous 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	WT %
Polyetherdiamine	—	N E	N E	>21
Isophoronediamine (IPD)	2855-13-2	N E	N E	<25
Benzyl Alcohol	100-51-6	N E	N E	<26
Nonylphenol	25154-52-3	N E	N E	<14
Trimethylehexamethylenediamine (TMD)	25620-58-0	N E	N E	<8
Cycloaliphatic Amine	—	N E	N E	<6

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 "—" Denotes composition is trade secret
- ALL ingredients are registered on TSCA

Section 3: Health Hazard Data

Health Risks and Symptoms of Exposure:

Inhalation: Vapors can cause severe irritation of respiratory tract.
Eyes: Vapors can cause irritation and burns to eyes.
Skin: Corrosive. Can cause burns to skin.
Ingestion: Can cause severe damage to mouth and throat.

Health Hazards (acute and chronic):

Carcinogenicity:
NTP Carcinogen: No IARC Monographs: No OSHA Regulated: No

Medical Conditions Generally Aggravated by Exposure: Skin contact may aggravate existing dermatitis (skin condition). Over exposure to vapor or mist may aggravate existing respiratory conditions such as asthma, bronchitis or fibrotic respiratory disease.

Emergency and First Aid Procedures:

Eyes: Flush at once with potable water for at least 15 minutes. DO NOT attempt to neutralize with chemical agents. Get immediate medical attention.
Skin: Flush immediately for 15 minutes with potable water. DO NOT attempt to neutralize with chemical agents. Remove contaminated clothing. Launder before reuse. Discard 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 liquids again. Get immediate medical attention. Do not give anything by mouth to an unconscious or convulsing person.
Inhalation: Remove to fresh air. Get medical attention if effects persist.
Other Instructions: 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.

Section 4: Control Measures

HMIS Ratings:	Health — 3 Flammability — 1 Reactivity — 0
Respiratory Protection:	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.
Ventilation:	Mechanical ventilation required if TLV is expected to be exceeded in confined areas.
Protective Gloves:	Neoprene or natural rubber gloves
Eye Protection:	Chemical goggles
Other Protective Clothing/Equipment:	Body Covering Clothes
Work/Hygienic Practices:	Practice good industrial hygiene. Wash with soap and water before eating, smoking or using the restroom.

Section 5: Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled: 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 material. Place in disposal containers.

Waste Disposal Method: Dispose in an approved incinerator or an approved landfill

Precautions to be Taken in Handling and Storing: Avoid contact. Keep containers tightly closed when not in use. 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.

Other Precautions: None

Section 6: Physical/Chemical Characteristics

Boiling Range:	>390° F
Vapor Density:	N.E.
Vapor Pressure:	1.1 mm Hg @ 21°C (70°F)
VOC:	0.00
Solubility in Water:	Partial
Appearance and Odor:	Low viscosity with sharp ammonia odor
Specific Gravity (H20=1):	.98
Evaporation Rate:	N.E.

Section 7: Fire and Explosion Hazard Data

Flash Point:	>200°F
Method Used:	Closed Cup
Flammable Limits in Air:	
By Volume-Lower:	Not Determined
By Volume-Upper:	Not Determined
Extinguishing Media:	Foam, Water Spray, Dry Chemical, CO 2
OSHA Flammability Class:	Combustible Liquid, Class III B
Special Fire Fighting Procedures:	Wear positive pressure self contained breathing equipment. Use water to cool containers exposed to fire.
Unusual Fire & Explosion Hazards:	Toxic fumes present when this material involved in fire. Containers may rupture.

Section 8: Reactivity Data

Stability:	Normally Stable
Conditions to Avoid:	Contact with acids such as Hydrochloric or Sulfuric.
Incompatibility (materials to avoid):	Avoid strong oxidizing agents and epoxy resins under uncontrolled conditions.
Hazardous Decomposition:	When exposed to fire, oxides of Carbon and Nitrogen will be generated
Hazardous Polymerization:	Will not occur

Section 9: Regulatory Information

SARA Title III Section 313: Unless shown below, this product does not contain the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR 372.

CAS#	Chemical Name	Percent by Weight
	None	

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 and 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	

Department of Transportation

Proper Shipping Name:	Amines, Liquid Corrosive, N.O.S. (Trimethylhexamethylenediamines)
Hazard Class:	Class 8, Corrosive
UN/NA ID Number:	UN 2735
Packaging:	III
NAERG #:	153

Section 10: Disclaimer

Data and recommendations presented herein are based upon our 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.

HAZARDOUS MATERIALS INVENTORY FORM

FORM 3

☒ ADD ☐ DELETE ☐ REVISED 1 Page 1 of 7 2

FACILITY ID# 3 0 0 3 5 38 BUSINESS NAME Terrazzo & Marble Supply 3

I. FACILITY INFORMATION

CHEMICAL LOCATION 4

CONFIDENTIAL LOCATION EPCRA ☐ Yes ☒ No 5 | MAP # 6 | GRID # 7

II. CHEMICAL INFORMATION

CHEMICAL NAME Terrazzo Matrix Part B | WASTE ☐ Yes 8 | TRADE SECRET ☒ Yes ☐ No 11 * If EPCRA see instructions

COMMON NAME Curing Agent, Epoxy 9 | An EHS Chemical ☐ Yes ☒ No 12 *If EHS is "Yes", all amounts must be LBS

CAS # Mixture 10 | FIRE CODE HAZARD CLASSES (supplied by GGFD) 13

TYPE (Check one item only) ☐ a. PURE ☒ b. MIXTURE ☐ c. WASTE 14 | RADIOACTIVE ☐ Yes ☒ No 15 | CURIES 16

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS 17 | FED HAZARD CATEGORIES ☐ a. FIRE ☒ b. REACTIVE ☐ c. PRESSURE RELEASE 18 ☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 3000 gal 19 | MAXIMUM DAILY AMOUNT 5000 gal 20 | ANNUAL WASTE AMOUNT Ø 21 | STATE WASTE CODE Ø 22

UNITS ☒ a. GALLONS ☐ b. CUBIC FEET 23 ☐ c. POUNDS ☐ d. TONS *If EHS, amount must be in pounds. | DAYS ON SITE 365 Days 24 | LARGEST CONTAINER 250 gallon Tote 25

STORAGE CONTAINER (Check all that apply) 26
☐ a. ABOVEGROUND TANK ☒ e. PLASTIC DRUM ☐ i. VAT ☐ m CYLINDER ☐ q. TANK WAGON
☐ b. UNDERGROUND TANK ☐ f. NONMETALLIC DRUM ☐ l. FIBER DRUM ☐ n. GLASS CONTAINER ☐ r. RAIL CAR
☐ c. TANK INSIDE BLDG ☐ g. METAL CONTAINER ☐ l. BAG(S) ☐ o PLASTIC CONTAINER ☒ s. TOTE BIN
☐ d STEEL DRUM ☐ h. CARBOY ☐ l. BOX(S) ☐ p. IN MACH OR EQUIP ☐ t. OTHER_____

STORAGE PRESSURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 27

STORAGE TEMPERATURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 28

	%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1	<50% 29	Aliphatic Amines 30	☐ Yes ☒ No 31	112-24-3 32
2	<30% 29	Phenols 30	☐ Yes ☒ No 31	84852-15-3 32
3	<20% 29	Polyether diamine 30	☐ Yes ☒ No 31	9046-10-0 32
4	29	30	☐ Yes ☐ No 31	32
5	29	30	☐ Yes ☐ No 31	32

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

PLACARDING INFORMATION

UNDOT # UN 2735 33
Refer to shipping papers or MSDS

DOT HAZARD CLASS 8 34
Refer to shipping papers or MSDS

EPCRA ☐ YES ☒ NO 35

X _____ 36
If EPCRA, Please Sign Here

NFPA 704 HAZARD DIAMOND
FIRE (RED) 1
HEALTH (BLUE) 3
REACTIVE (YELLOW) 0
SPECIAL HAZARD C
WHITE OX/W 37

MAKE AS MANY COPIES OF CHEMICAL INVENTORY FORM AS NEEDED

Material Safety Data Sheet

Revision Date: 07 2008 Print Date: 07 2008

Section 1: Product and Company Identification

Product Name: Terroxy Resin Systems — Terrazzo Matrix, Part B — HY

Product Use Description: Curing Agent, Epoxy

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

Components	OSHA PEL	ACGIH TLV	Concentraion (Weight %)
Aliphatic Amines	N/E	N/E	<50
Phenols	N/E	N/E	<30
Polyetherdiamine	N/E	N/E	<20

- N/E Not Established
- ALL ingredients are registered on TSCA

Composition is trade secret.

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 3: Hazards Identification

Emergency Overview:

Vapors can cause severe irritation of respiratory tract.
Vapors can cause irritation and burns to the eyes.
Can cause burns to skin.
Can cause severe damage to mouth and throat.

Potential Health Effects:

Inhalation : Can cause severe eye, skin and respiratory tract burns.

Eye contact : Causes eye burns. May cause blindness. Severe eye irritation.

Skin contact : Harmful in contact with skin. Causes skin burns. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Ingestion : Harmful if swallowed. If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.

Chronic Health Hazard : This product contains no listed carcinogens according to IARC, ACGIH, NTP and or OSHA in concentrations of 0.1 percent or greater. Prolonged contact may result in chemical burns and permanent damage. Repeated or prolonged contact causes sensitization, asthma and eczemas.

Section 3: Hazards Identification (continued)

Carcinogenicity:	NTP CARCINOGEN: No IARC MONOGRAPHS: No OSHA REGULATED: No
Exposure Guidelines:	Target Organs: Skin, Eyes
Aggravated Medical Conditions:	Skin contact may aggravate existing dermatitis (skin condition). Over exposure to vapor or mist may aggravate existing respiratory conditions such as asthma, bronchitis or fibrotic respiratory disease.

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 :	Hold eyelids apart, initiate and maintain gentle and continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour.
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. If medical care is not promptly available, continue to irrigate for one hour. 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 (CO_2). 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 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 Flamability Class: Combustible Class III B

Section 6: Accidential 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. Absorb spill with clay, diatomaceous earth or other absorbent materials. Place in disposal containers.
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. Emergency showers and eye wash stations should be readily accessible. 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

Engineering Measures:

Provide readily accessible eye wash stations and safety showers. Provide natural or explosion proof ventilation adequate to ensure concentrations are kept below exposure limits.

Personal Protective Equipment:

Respiratory Protection:	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. Not required for properly ventilated areas.
Ventilation:	Mechanical ventilation required if TLV is expected to be exceeded in confined areas.
Hand Protection:	Neoprene gloves. Butyl-rubber gloves. Nitrile rubber. Impervious gloves. The breakthrough time of the selected glove(s) must be greater than the intended use period.
Eye Protection:	Wear splash proof chemical resistant goggles. Full face shield with goggles underneath.
Skin and Body Protection:	Slicker Suit. Impervious clothing. Full rubber suit (rain gear). Rubber or plastic boots. Long sleeve shirts and trousers without cuffs.
Environmental Exposure Controls:	Construct a dike to prevent spreading.
Special Instructions for Protection and Hygiene:	Discard contaminated leather articles. Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Provide readily accessible eye wash stations and safety showers. Wash at the end of each workshift and before eating, smoking or using the toilet.

Section 9: Physical and Chemical Properties

Form:	Liquid.
Color:	Slt. Yellow.
Odor:	Amine like, amonia odor.
Relative density:	0.95 (1120 = 1)
Vapor pressure:	3.9 mmHg at 70°F (21°C)
Density:	59.19 lb/ft³ (0.95 g cm³) at 70°F (21°C)
Boiling point/Range:	> 392°F (200°C)
Flash point:	230°F (110°C)

Section 10: Physical and Chemical Properties

Stability :	Stable under normal conditions.
Conditions to Avoid:	Contact with acids such as Hydrocholoric or Sulfuric.
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. CAUTION! N-Nitrosamies, many of which are known to be potent carcinogens, may be formed when the product comes in contact with nitrous acid, nitrites or atmospheres with high nitrious oxide concentrations. Reactive metals (e.g. sodium, calcium, zinc etc.) Nitrous acid and other nitrosating agents. Materials reactive with hydroxyl compounds. Oxidizing agents.
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. Nitrosamine
Hazardous Polymerization:	Will not occur.

Section 11: Toxicological Information

Ingestion:	No data available on the product itself.	
Ingestion - Components		
Nonylphenol:	LD50: 580 mg/kg	Species: Rat
Polyetherdiamine:	LD50: 2,880 mg/kg	Species: Rat
Aliphatic Amines:	LD50: 1,200 mg/kg	Species: Rat
Inhalation:	No data available on the product itself.	
Skin. :	No data available on the product itself.	
Skin - Components		
Nonylphenol:	LD50: 2,033 mg/kg	Species: Rabbit
Polyetherdiamine:	LD50: 2,980 mg/kg	Species: Rabbit
Acute dermal irritation/corrosion:	Corrosive to the skin of a rabbit.	

Chronic Health Hazard

This 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 - Components:

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

Toxicity to daphnia - Components:

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

DOT

Proper shipping name:	Amines, liquid, corrosive, n.o.s. (Aliphatic Amines, Nonylphenol)
Class:	8
U.N ID No.:	UN2735
Packing group:	III
NAERG No.:	153

IATA

Proper shipping name:	Amines, liquid, corrosive, n.o.s. (Aliphatic Amines, Nonylphenol)
Class:	8
U.N ID No.:	UN2735
Packing group:	III

IMDG

Proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S. (Aliphatic Amines, Nonylphenol)
Class:	8
U.N ID No.:	UN2735
Packing group:	III

TDG

Proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S. (Aliphatic Amines, Nonylphenol)
Class:	8
U.N 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	Not 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.

U.S. 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: 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.

GARDEN GROVE FIRE DEPARTMENT
BUSINESS EMERGENCY PLAN

PREVENTION:

Part of the emergency pre-planning process is to identify potential hazards BEFORE an emergency, then either eliminate the hazard (if feasible) or prepare to handle the hazard should an emergency occur. To help you in this task, the form below is designed to help you identify potential hazards and to plan for minimizing the hazard. Complete this information for each hazardous materials storage location within your facility.

	HAZARDOUS MATERIALS STORAGE LOCATION	PREVENTATIVE MEASURE
1.	Rack #2	Handle products w/ care
2.	Along West Wall just North of office	} Spill pallets & diatematious Earth
3.	Along North Wall Next to Overhead Door	
4.		
5.		
6.		
7.		
8.		

Comments relating to the listed storage areas:

All hazardous product to be store in the first 6 bays of Rack #2 on the 1st & 2nd shelves.

Prevention measures to be taken at this location:

- Place spill pallets under totes when packaging product.
- Diatematious Earth to soak up any product spilled onto Floor

Estimated date of completion: 10/28/08

Actual date of completion: 10/28/08

MAKE ADDITIONAL COPIES OF THIS FORM AS NEEDED.