

Terroxy Epoxy Matrix Part A by Terrazzo and Marble Supply

Health Product Declaration v2.1

CLASSIFICATION: 09 66 23.16 Epoxy-Resin Terrazzo Flooring

created via: HPDC Online Builder

PRODUCT DESCRIPTION: Terroxy Matrix is a pigmented and highly decorative epoxy resin for poured-in-place epoxy terrazzo flooring systems. This two part 100% solid matrix consists of a 5:1 ratio, Part A Resin to Part B Hardener. When mixed, Terroxy Matrix offers outstanding durability and provides one of the lowest life cycle costs relative to other decorative flooring systems. The finished surface is chemical resistant, easy to maintain, virtually odor free and does not support bacterial growth.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format

- Nested Materials Method
 Basic Method

Threshold Disclosed Per

- Material
 Product

Threshold level

- 100 ppm
 1,000 ppm
 Per GHS SDS
 Per OSHA MSDS
 Other

Residuals/Impurities

- Considered
 Partially Considered
 Not Considered

Explanation(s) provided for Residuals/Impurities?

- Yes No

Are All Substances Above the Threshold Indicated:

Characterized
Percent Weight and Role Provided? Yes No

Screened
Using Priority Hazard Lists with Results Disclosed? Yes No

Identified
Name and Identifier Provided? Yes No

CONTENT IN DESCENDING ORDER OF QUANTITY

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

MATERIAL | **SUBSTANCE** | **RESIDUAL OR IMPURITY**
GREENSCREEN SCORE | **HAZARD TYPE**

TERROXY EPOXY MATRIX PART A [EPICHLOROHYDRIN-BISPHENOL A RESIN **LT-P1** | EYE | SKI | AQU | MUL LIMESTONE; CALCIUM CARBONATE **LT-UNK** SOYBEAN OIL, ME ESTER **LT-UNK** ALKYL (C12, C14) GLYCIDYL ETHER **LT-P1** | SKI | MUL FUMED SILICA, CRYSTALLINE-FREE **LT-UNK** QUARTZ **LT-1** | CAN TITANIUM DIOXIDE **LT-1** | CAN | END]

Number of Greenscreen BM-4/BM3 contents..... 0
Contents highest concern GreenScreen
Benchmark or List translator Score..... LT-1
Nanomaterial..... No

INVENTORY AND SCREENING NOTES:

Percentage (%) ranged used to as means of keeping exact formulation proprietary.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

Material (g/l): 0.0 Regulatory (g/l): 0.0
Does the product contain exempt VOCs: No
Are ultra-low VOC tints available: No

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

VOC emissions: Air Quality Sciences, Small Chamber VOC Testing, ASTM D-5116

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified?

- Yes
 No

PREPARER: Self-Prepared

VERIFIER:
VERIFICATION #:

SCREENING DATE: 2017-08-01

PUBLISHED DATE: 2017-08-01

EXPIRY DATE: 2020-08-01

Section 2: Content in Descending Order of Quantity

This section lists contents in a product based on specific threshold(s) and reports detailed health information including hazards. This HPD uses the inventory method indicated above, which is one of three possible methods:

- Basic Inventory method with Product-level threshold.
- Nested Material Inventory method with Product-level threshold
- Nested Material Inventory method with individual Material-level thresholds

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.1, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-standard

TERROXY EPOXY MATRIX PART A

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Considered. Product is estimated to have to no residuals/impurities over 1000 ppm based off supplier information.

OTHER PRODUCT NOTES: None

EPICHLOROHYDRIN-BISPHENOL A RESIN

ID: 25068-38-6

#: 40.0000 - 60.0000 GS: LT-P1 RC: None NANO: No ROLE: Binder Resin

HAZARDS:	AGENCY(IES) WITH WARNINGS:
EYE IRRITATION	EU - R-phrases R36 - Irritating to eyes
SKIN IRRITATION	EU - R-phrases R38 - Irritating to skin
SKIN SENSITIZE	EU - R-phrases R43 - May cause sensitization by skin contact
ACUTE AQUATIC	EU - R-phrases R51 - Toxic to Aquatic Organisms
CHRON AQUATIC	EU - GHS (H-Statements) H411 - Toxic to aquatic life with long lasting effects
SKIN IRRITATION	EU - GHS (H-Statements) H315 - Causes skin irritation
SKIN SENSITIZE	EU - GHS (H-Statements) H317 - May cause an allergic skin reaction
EYE IRRITATION	EU - GHS (H-Statements) H319 - Causes serious eye irritation
MULTIPLE	German FEA - Substances Hazardous to Waters Class 2 - Hazard to Waters

SUBSTANCE NOTES: Percentage (%) ranged used to as means of keeping exact formulation proprietary.

LIMESTONE; CALCIUM CARBONATE

ID: 1317-65-3

#: 20.0000 - 40.0000 GS: LT-UNK RC: None NANO: No ROLE: Filler

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: Percentage (%) ranged used to as means of keeping exact formulation proprietary.

SOYBEAN OIL, ME ESTER

ID: 67784-80-9

%: 3.0000 - 8.0000	GS: LT-UNK	RC: None	NANO: No	ROLE: Diluent
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Percentage (%) ranged used to as means of keeping exact formulation proprietary.

ALKYL (C12, C14) GLYCIDYL ETHER

ID: 68609-97-2

%: 3.0000 - 8.0000	GS: LT-P1	RC: None	NANO: No	ROLE: Diluent
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

SKIN IRRITATION

EU - R-phrases

R38 - Irritating to skin

SKIN SENSITIZE

EU - R-phrases

R43 - May cause sensitization by skin contact

SKIN IRRITATION

EU - GHS (H-Statements)

H315 - Causes skin irritation

SKIN SENSITIZE

EU - GHS (H-Statements)

H317 - May cause an allergic skin reaction

MULTIPLE

German FEA - Substances Hazardous to Waters

Class 2 - Hazard to Waters

SUBSTANCE NOTES: Percentage (%) ranged used to as means of keeping exact formulation proprietary.

FUMED SILICA, CRYSTALLINE-FREE

ID: 112945-52-5

%: 1.0000 - 5.0000	GS: LT-UNK	RC: None	NANO: No	ROLE: Thixotropic Agent
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Percentage (%) ranged used to as means of keeping exact formulation proprietary.

QUARTZ

ID: 14808-60-7

%: 0.0100 - 0.5000	GS: LT-1	RC: None	NANO: No	ROLE: Filler
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

US CDC - Occupational Carcinogens

Occupational Carcinogen

CANCER

CA EPA - Prop 65

Carcinogen - specific to chemical form or exposure route

CANCER

US NIH - Report on Carcinogens

Known to be Human Carcinogen (respirable size - occupational setting)

CANCER

MAK

Carcinogen Group 1 - Substances that cause cancer in man

CANCER

IARC

Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources

SUBSTANCE NOTES: Percentage (%) ranged used to as means of keeping exact formulation proprietary.

TITANIUM DIOXIDE

ID: 13463-67-7

%: 0.0000 - 5.0000

GS: LT-1

RC: None

NANO: No

ROLE: Pigment

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

US CDC - Occupational Carcinogens

Occupational Carcinogen

CANCER

CA EPA - Prop 65

Carcinogen - specific to chemical form or exposure route

CANCER

IARC

Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources

CANCER

MAK

Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

SUBSTANCE NOTES: Percentage (%) ranged used to as means of keeping exact formulation proprietary.

Section 3: Certifications and Compliance

This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.

VOC EMISSIONS

Air Quality Sciences, Small Chamber VOC Testing, ASTM D-5116

CERTIFYING PARTY: Third Party

ISSUE DATE: 2012-01-13

EXPIRY DATE:

CERTIFIER OR LAB: Air Quality Sciences, Inc.

APPLICABLE FACILITIES: All

CERTIFICATE URL: <https://builder.hpd-collaborative.org/uploads/files/certifications/997/1415736455.pdf>

CERTIFICATION AND COMPLIANCE NOTES:

Section 4: Accessories

This section lists related products or materials that the manufacturer requires or recommends for installation (such as adhesives or fasteners), maintenance, cleaning, or operations. For information relating to the contents of these related products, refer to their applicable Health Product Declarations, if available.

Section 5: General Notes

Considered. Product is estimated to have to no residuals/impurities over 1000 ppm based off supplier information.

Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: **Terrazzo and Marble Supply**

ADDRESS: **3555 West 123rd**

WEBSITE: **www.tmsupply.com**

CONTACT NAME: **Erik Wachholder**

TITLE: **Chemist**

PHONE: **7083856633**

EMAIL: **EWACHHOLDER@TMSUPPLY.COM**

KEY

OSHA MSDS

Occupational Safety and Health Administration Material Safety Data Sheet

GHS SDS

Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

Hazard Types

AQU Aquatic toxicity

CAN Cancer

DEV Developmental toxicity

END Endocrine activity

EYE Eye irritation/corrosivity

GEN Gene mutation

GLO Global warming

MAM Mammalian/systemic/organ toxicity

MUL Multiple hazards

NEU Neurotoxicity

OZO Ozone depletion

PBT Persistent Bioaccumulative Toxic

PHY Physical Hazard (reactive)

REP Reproductive toxicity

RES Respiratory sensitization

SKI Skin sensitization/irritation/corrosivity

LAN Land Toxicity

NF Not found on Priority Hazard Lists

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)

BM-3 Benchmark 3 (use but still opportunity for improvement)

BM-2 Benchmark 2 (use but search for safer substitutes)

BM-1 Benchmark 1 (avoid - chemical of high concern)

BM-U Benchmark Unspecified (insufficient data to benchmark)

LT-P1 List Translator Possible Benchmark 1

LT-1 List Translator Likely Benchmark 1

LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)

NoGS Unknown (no data on List Translator Lists)

Recycled Types

PreC Preconsumer (Post-Industrial)

PostC Postconsumer

Both Both Preconsumer and Postconsumer

Unk Inclusion of recycled content is unknown

None Does not include recycled content

Other Terms

Inventory Methods:

Nested Method / Material Threshold Substances listed within each material per threshold indicated per material

Nested Method / Product Threshold Substances listed within each material per threshold indicated per product

Basic Method / Product Threshold Substances listed individually per threshold indicated per product

Nano Composed of nano scale particles or nanotechnology

Third Party Verified Verification by independent certifier approved by HPDC

Preparer Third party preparer, if not self-prepared by manufacturer

Applicable facilities Manufacturing sites to which testing applies

The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator™, and when available, full GreenScreen® assessments. The HPD Open Standard v2.1 is not:

- *a method for the assessment of exposure or risk associated with product handling or use,*
- *a method for assessing potential health impacts of: (i) substances used or created during the manufacturing process or (ii) substances created after the product is delivered for end use.*

Information about life cycle, exposure and/or risk assessments performed on the product may be reported by the manufacturer in appropriate Notes sections, and/or, where applicable, in the Certifications section.

The HPD Open Standard was created and is supported by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry that is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this HPD and for compliance with the HPD standard noted.