

CLASSIFICATION: 04 20 10.00 Masonry(Thin Brick): Architectural & Glazed Masonry

PRODUCT DESCRIPTION: The raw brick that makes up our Glazed Thin Brick is sourced through H.C. Muddox, a supplier who has been in business for over 100 years and continues to source and manufacture all brick right here in California, within 150 miles from the Fireclay Tile factory. Brick qualifies for LEED points and is glazed on site at the Fireclay Tile factory in Aromas, CA. As with all hand made tile and brick, some degree of color and size variation is to be expected.

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 Yes No

Percent Weight and Role Provided?

Screened Yes No

Using Priority Hazard Lists with Results Disclosed?

Identified Yes No

Name and Identifier Provided?

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

FIRECLAY TILE - GLAZED THIN BRICK [CLAY NoGS FRITS, CHEMICALS (UNLEADED) LT-P1 | MUL MANGANESE DIOXIDE LT-P1 CHROMITE NoGS BARIUM CARBONATE LT-UNK]

Number of Greenscreen BM-4/BM3 contents ... 0

Contents highest concern GreenScreen

Benchmark or List translator Score ... LT-P1

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

M1-Emission Classification of Building Materials is the lowest emission class.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

VOC emissions: Emission Classification of Building Materials - M1

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified?

- Yes
 No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2018-05-02

PUBLISHED DATE: 2018-06-26

EXPIRY DATE: 2021-05-02



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

FIRECLAY TILE - GLAZED THIN BRICK

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Brick made from Clay or Shale is extracted from the ground and fired to become a solid mass that does not off gas or leach out materials harmful to the environment or people.

OTHER PRODUCT NOTES: Clay/Shale Aluminum Silicate is the main ingredient in manufacturing clay brick products and is one of the most readily available soil types on earth. The product is recyclable by grinding, reforming, firing and repackaging. Crushed brick can be use as decorative landscaping materials. Fireclay tile recycles our own tile and glaze waste and reincorporates it into our recycled body tile.

CLAY

ID: 1302-87-0

| | | | | |
|-----------------------|----------|----------|----------|--|
| %: 95.0000 - 100.0000 | GS: NoGS | RC: None | NANO: No | ROLE: Clay, Aluminum Silicate, is the main ingredient in our thin brick. |
|-----------------------|----------|----------|----------|--|

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Clay, Aluminum Silicate, is the main ingredient in our thin brick. It is one of the most abundant soil types on earth.

FRITS, CHEMICALS (UNLEADED)

ID: 65997-18-4

| | | | | |
|--------------------|-----------|----------|----------|--|
| %: 2.0000 - 5.0000 | GS: LT-P1 | RC: None | NANO: No | ROLE: Frits are oxides to color the glaze. |
|--------------------|-----------|----------|----------|--|

HAZARDS:

AGENCY(IES) WITH WARNINGS:

MULTIPLE

German FEA - Substances Hazardous to Waters

Class 2 - Hazard to Waters

SUBSTANCE NOTES: Fritz are oxides to color the glaze. When fired at high temperatures in a kiln the resulting product is inert.

MANGANESE DIOXIDE

ID: 1313-13-9

| | | | | |
|--------------------|-----------|----------|----------|--|
| %: 0.0000 - 3.0000 | GS: LT-P1 | RC: None | NANO: No | ROLE: A pigment added to clay to make white brick transition to browns and blacks. |
|--------------------|-----------|----------|----------|--|

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: A pigment added to clay to make white brick transition to browns and blacks.

CHROMITE

ID: 1308-31-2

#: 0.0000 - 3.0000

GS:

RC:

NANO:

ROLE: A pigment added to clay to make white brick transition to various ranges of grays.

NoGS

None

No

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: A pigment added to clay to make white brick transition to various ranges of grays.

BARIUM CARBONATE

ID: 513-77-9

#: 0.0000 - 3.0000

GS: LT-

RC:

NANO:

ROLE: Barium Carbonate is used to tie up soluble salts inherent in clays that create efflorescence and scum.

UNK

None

No

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Barium Carbonate is used to tie up soluble salts inherent in clays that create efflorescence and scum.

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

Emission Classification of Building Materials - M1

CERTIFYING PARTY: **Self-declared**

ISSUE DATE: **2018-05-01**

EXPIRY DATE:

CERTIFIER OR LAB: **Self Declared**

APPLICABLE FACILITIES: **Thin Brick does not give off volatile organic compounds, VOC's, because it is an inherently non-emitting source per LEED®.**

CERTIFICATE URL:

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.

MORTAR AND GROUT

HPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Accessory materials are required for all installations. VOC content of various mortars and grouts depend on the product selected.

Section 5: General Notes

Fireclay Tile's Thin Brick does not contain any volatile organic compounds, VOC's. Fireclay Tile's Thin Brick is substantially lighter than traditional glazed brick, resulting in potentially an 85% cost and emission reduction. Fireclay Tile recycles our own tile and glaze waste and reincorporates it into our recycled clay tile.



MANUFACTURER INFORMATION

MANUFACTURER: **Fireclay Tile**
ADDRESS: **901 Brannon Street**
San Francisco CA 94013, United States
WEBSITE: **www.fireclaytile.com**

CONTACT NAME: **Paul Burns**
TITLE: **Founder & Chief Ceramicist**
PHONE: **800.773.2226**
EMAIL: **paul@fireclaytile.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 | GLO Global warming | PHY Physical Hazard (reactive) |
| CAN Cancer | MAM Mammalian/systemic/organ toxicity | REP Reproductive toxicity |
| DEV Developmental toxicity | MUL Multiple hazards | RES Respiratory sensitization |
| END Endocrine activity | NEU Neurotoxicity | SKI Skin sensitization/irritation/corrosivity |
| EYE Eye irritation/corrosivity | OZO Ozone depletion | LAN Land Toxicity |
| GEN Gene mutation | PBT Persistent Bioaccumulative Toxic | NF Not found on Priority Hazard Lists |

GreenScreen (GS)

| | |
|---|--|
| BM-4 Benchmark 4 (prefer-safer chemical) | LT-P1 List Translator Possible Benchmark 1 |
| BM-3 Benchmark 3 (use but still opportunity for improvement) | LT-1 List Translator Likely Benchmark 1 |
| BM-2 Benchmark 2 (use but search for safer substitutes) | LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark) |
| BM-1 Benchmark 1 (avoid - chemical of high concern) | NoGS Unknown (no data on List Translator Lists) |
| BM-U Benchmark Unspecified (insufficient data to benchmark) | |

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.