Daltile Branded Tile Products Manufactured by Dal-Tile Corporation

CLASSIFICATION: 09 30 13.00 Finishes: Ceramic Tiling

PRODUCT DESCRIPTION: Daltile Brand ceramic tile products are made using a high temperature kiln-firing process. For purposes of this HPD, the term “ceramic” encompasses all types of tile products manufactured by Dal-Tile Corporation; ceramic, porcelain and quarry. The individual ingredients used to formulate the tile product (water and mineral-based naturally occurring materials) undergo both physical and chemical reactions that form the final fired tile product. Ceramic tile is fire resistant, durable (lasts a lifetime) and extremely easy to maintain. As floor and wall coverings, ceramic tile products provide dual functions. They serve 1) an aesthetic function as a design component, and 2) a technical function as a building finishing material. As a building material, ceramic tile is capable of withstanding a wide range of environmental stresses (non-flammable, heat/cold resistant, and provides a moisture barrier). The versatility of ceramic tile is further enhanced by the extensive ranges of colors, textures, and decorative motifs offered by Dal-Tile under multiple brand names. Tile products are available in a wide range of sizes from less than 1" x 1" to more than 24" x 24". Information on Daltile Brand tile products can be found on the following website: http://www.daltile.com SDSs and ASTM testing data can be found at: http://products.daltile.com/msdsastm.cfm This Health Product Declaration is representative of all Daltile brand tile series manufactured in the following locations: Dickson, TN; El Paso, TX; Fayette AL; Florence, AL; Gettysburg, PA; Lewisport, KY; Mexicali, MEX; Monterrey, MEX; Muskogee, OK; Salamanca, MEX; Sunnyvale, TX Product manufacturing locations can be verified online at www.daltile.com within each series webpage.

Section 1: Summary

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

Are All Substances Above the Threshold Indicated:
- Characterized Yes No
- 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
DALTILE BRANDS TILE PRODUCTS MANUFACTURED | KAOLIN CLAY LT-UNK | CAN NEPHELINE SYENITE LT-UNK TALC BM-1 | CAN FELDSPAR LT-UNK | RES MICA (MICA (BIOTITE)) LT-UNK QUARTZ LT-T | CAN |

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE

Multi-attribute: Environmental Product Declaration (EPD) by UL - Industry Generic

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Preparer: Self-Prepared

Third Party Verified: Yes

PREPARER: Self-Prepared
VERIFIER:
VERIFICATION #: 2017-09-06
SCREENING DATE: 2017-09-06
PUBLISHED DATE: 2018-05-14
EXPIRY DATE: 2020-09-06

Daltile Branded Tile Products Manufactured hpdrepository.hpd-collaborative.org
HPD v2.1 created via HPDC Builder Page 1 of 7
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](http://www.hpd-collaborative.org/hpd-2-1-standard)

### DALTILE BRANDED TILE PRODUCTS MANUFACTURED

**PRODUCT THRESHOLD:** 100 ppm  
**RESIDUALS AND IMPURITIES CONSIDERED:** Yes

**RESIDUALS AND IMPURITIES NOTES:** The physical and chemical reactions in the kiln-firing process transform 100% of the initial ingredients into the final fired tile product and no residuals remain.

**OTHER PRODUCT NOTES:** During the manufacturing process a combination of intensely high pressure and very high firing techniques create a chemical and physical change in these materials converting these hazards into a benign, fully vitrified porcelain tile product.

#### KAOLIN CLAY

- **ID:** 1332-58-7
- **%:** 20.0000 - 55.0000
- **GS:** LT-UNK
- **RC:** None
- **NANO:** No
- **ROLE:** Used in pre-fired tile

**HAZARDS:**

- **CANCER**  
  - **AGENCY(IES) WITH WARNINGS:** MAK  
  - **Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification**

**SUBSTANCE NOTES:** Range due to variations in product family. Hazard associated with occupational/manufacturing use only. It is not associated with the end use of the final fired product that is purchased, installed, and used by the customer.

#### NEPHELINE SYENITE

- **ID:** 37244-96-5
- **%:** 0.0000 - 50.0000
- **GS:** LT-UNK
- **RC:** None
- **NANO:** No
- **ROLE:** Used in pre-fired tile

**HAZARDS:**

- **None Found**  
  - **No warnings found on HPD Priority lists**

**SUBSTANCE NOTES:** Range due to variations in product family. Hazard associated with occupational/manufacturing use only. It is not associated with the end use of the final fired product that is purchased, installed, and used by the customer.

#### TALC

- **ID:** 14807-96-6
- **%:** 0.0000 - 40.0000
- **GS:** BM-1
- **RC:** None
- **NANO:** No
- **ROLE:** Used in pre-fired tile

**HAZARDS:**

- **CANCER**  
  - **MAK**
  - **Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification**
**FELDSPAR**

<table>
<thead>
<tr>
<th>%:</th>
<th>0.0000 - 15.0000</th>
<th>GS: LT-UNK</th>
<th>RC: UNK</th>
<th>NANO: No</th>
<th>ROLE: Used in pre-fired tile</th>
</tr>
</thead>
</table>

**HAZARDS:**

**RESPIRATORY**

AOEC - Asthmagens

Asthmagens (ARs) - sensitizer-induced - inhalable forms only

**SUBSTANCE NOTES:** Range due to variations in product family. Hazard associated with occupational/manufacturing use only. It is not associated with the end use of the final fired product that is purchased, installed, and used by the customer.

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**MICA (MICA (BIOTITE))**

<table>
<thead>
<tr>
<th>%:</th>
<th>0.0000 - 5.0000</th>
<th>GS: LT-UNK</th>
<th>RC: UNK</th>
<th>NANO: No</th>
<th>ROLE: Used in pre-fired tile</th>
</tr>
</thead>
</table>

**HAZARDS:**

None Found

No warnings found on HPD Priority lists

**SUBSTANCE NOTES:** Range due to variations in product family. Hazard associated with occupational/manufacturing use only. It is not associated with the end use of the final fired product that is purchased, installed, and used by the customer.

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**QUARTZ**

<table>
<thead>
<tr>
<th>%:</th>
<th>0.0000 - 30.0000</th>
<th>GS: LT-1</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Used in pre-fired tile</th>
</tr>
</thead>
</table>

**HAZARDS:**

**CANCER**

US CDC - Occupational Carcinogens

Occupational Carcinogen

CA EPA - Prop 65

Carcinogen - specific to chemical form or exposure route

IARC

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

US NIH - Report on Carcinogens

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

MAK

Carcinogen Group 1 - Substances that cause cancer in man

New Zealand - GHS

6.7A - Known or presumed human carcinogens

Australia - GHS

H350 - May cause cancer

**SUBSTANCE NOTES:** Range due to variations in product family. Hazard associated with occupational/manufacturing ONLY. It is NOT associated with the end use of the final fired product that is purchased, installed, and used by the customer.
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.

<table>
<thead>
<tr>
<th>MULTI-ATTRIBUTE</th>
<th>Environmental Product Declaration (EPD) by UL - Industry Generic</th>
</tr>
</thead>
<tbody>
<tr>
<td>CERTIFYING PARTY:</td>
<td>Third Party</td>
</tr>
<tr>
<td>APPLICABLE FACILITIES:</td>
<td>El Paso, TX; Fayette, AL; Florence, AL; Gettysburg, PA; Lewisport, KY; Monterrey, Mexico; Muskogee, OK; Sunnyvale, TX</td>
</tr>
<tr>
<td>ISSUE DATE:</td>
<td>2014-04-11</td>
</tr>
<tr>
<td>EXPIRY DATE:</td>
<td>2019-04-11</td>
</tr>
<tr>
<td>CERTIFIER OR LAB:</td>
<td>UL Environment Inc.</td>
</tr>
<tr>
<td>CERTIFICATE URL:</td>
<td><a href="https://spot.ulprospector.com/en/na/BuiltEnvironment">https://spot.ulprospector.com/en/na/BuiltEnvironment</a></td>
</tr>
</tbody>
</table>

CERTIFICATION AND COMPLIANCE NOTES: EPDs are available for all tile products manufactured at the above facilities.

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.

<table>
<thead>
<tr>
<th>MORTAR AND GROUT</th>
<th>HPD URL: No HPD Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:</td>
<td>Accessory materials required for all installations. VOC content of the mortar and/or grout varies depending on the type and brand chosen.</td>
</tr>
</tbody>
</table>

Section 5: General Notes

Mohawk Corporation - Dal-Tile's Parent Company, has published a LEED compliant Corporate Sustainability Report. This document can be found at the following website: http://mohawksustainability.com/
MANUFACTURER INFORMATION

MANUFACTURER: Dal-Tile Corporation
ADDRESS: 7834 CF Hawn Freeway
           Dallas TX 75217, United States
WEBSITE: www.daltile.com

CONTACT NAME: Jan Moore
TITLE: EHS Specialist
PHONE: 214-309-4393
EMAIL: jan.moore@daltile.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
PHY Physical Hazard (reactive)
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.