

HPD UNIQUE IDENTIFIER: 26380

CLASSIFICATION: 09 30 13 Ceramic Tiling

PRODUCT DESCRIPTION: This HPD encompasses all related Ceramic Wall Tiles Product Line by Kaleseramik including ceramic, porcelain, quarry tile, and mosaic blends that are intended to cover the floor and/or wall assemblies as a finish material. Kaleseramik Wall tiles are primarily made of kaolin and clay, but they also include other raw materials such as marble, frit, dolomite, bentonite, and quartz. This Multi-Product HPD discloses all ingredients, including any residual and known trace elements that are make up the body of these products and are being reported to 100ppm. The production technology of tiles is dry pressing. The required composition is blended with water to form a uniform slurry. This slurry then fed into spray driers to form uniform granules ready for compaction. These granules are then shaped to form the bisque or green body. This can be glazed or left unglazed depending on its intended use. The green ceramic body is fired at high temperatures, resulting in a hard body. Specific technical and testing data, product sizes, finishes, colors, use recommendations, warranties, and other pertinent info can be provided by contacting Kaleseramik, or www.kale.com.tr

Section 1: Summary

Nested Method / Product Threshold

CONTENT INVENTORY

Table with 4 columns: Inventory Reporting Format, Threshold Level, Residuals/Impurities, and Characterized/Screened/Identified. Includes options for reporting methods (Nested/Basic), threshold levels (100/1000 ppm, GHS SDS, Other), and residual handling (Considered/Not Considered). Also includes checkboxes for screening and identification.

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
CERAMIC BISQUE [CLAY NoGS KAOLIN CLAY (PRIMARY CASRN IS 1332-58-7) LT-UNK | CAN GRANITE NoGS CALCITE (CA(CO3)) NoGS FRITS, CHEMICALS LT-P1 | MUL SODIUM SILICATE LT-P1 | END NEPHELINE SYENITE NoGS ZIRCON (ZR(SIO4)) LT-UNK ALUMINUM OXIDE (PRIMARY CASRN IS 1344-28-1) BM-2 | RES ELECTROLYTES, COBALT-MANUFG. LT-1 | RES | CAN | GEN ZINC OXIDE BM-1 | AQU | END | RES | MUL WOLLASTONITE LT-UNK MAGNESITE LT-UNK QUARTZ LT-1 | CAN SODIUM TRIPOLYPHOSPHATE LT-UNK]

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

INVENTORY AND SCREENING NOTES:

Kaleseramik Wall tiles are primarily made of kaolin and clay, but they also include other raw materials such as marble, frit, dolomite, bentonite, and quartz. The production technology of tiles is dry pressing. The required composition is blended with water to form a uniform slurry. This slurry then fed into spray driers to form uniform granules ready for compaction. These granules are then shaped to form the bisque or green body. This can be glazed or left unglazed depending on its intended use. The green ceramic body is fired at high temperatures, resulting in a hard body.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

VOC emissions: UL/GreenGuard Gold Certified
VOC emissions: UL/GreenGuard Certified
LCA: The International EPD Systems
LCA: CLIMATE DECLARATION

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients Option 1

Third Party Verified? Yes
PREPARER: Self-Prepared
VERIFIER:
SCREENING DATE: 2020-12-23
PUBLISHED DATE: 2021-11-02

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 2.2, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-2-standard

CERAMIC BISQUE

#: 0.0000 - 100.0000

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

MATERIAL TYPE: Ceramic

RESIDUALS AND IMPURITIES NOTES: Negligible residual amounts (0.0001-0.9%) by weight of the following elements may be present: Antimony, Arsenic, Barium, Beryllium, Cadmium, Cobalt, Chromium, Copper, Manganese, Mercury, Nickel, Lead, Silver, Thallium, Tin, Titanium, Vanadium, and Zinc. These impurities may exist due to geological characteristics of clay and minerals that make up the raw ingredients of the body of ceramic tiles, as well as any other man-made or natural products containing silica, calcium and/or clay mined from the earth.

HPD URL: <https://www.hpd-collaborative.org/hpd-2-1-standard/>

OTHER MATERIAL NOTES: Products are non-toxic and non-hazardous in their stable form as described in their perspective SDS sheets. See Section 5 General Notes for a list of series covered under this HPD that are categorized as ceramic or resemble ceramics in nature as related to their raw ingredient disclosures. All substances in this material are below the reportable threshold. All substances in this material are below the reported threshold.

CLAY

ID: 1302-87-0

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2020-12-23 11:00:03

#: 40.0000 - 50.0000

GS: NoGS

RC: PreC

NANO: No

SUBSTANCE ROLE: Ceramic body

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Substance reported is associated with manufacturing but not the end-use. Such ingredients may also be found in kitchen wares, skincare, and other common household products. Post firing, tiles are non-toxic and non-hazardous in their stable form as described in their respective Safety Data Sheets. See Section 5 General Notes for a list of series covered under this HPD

KAOLIN CLAY (PRIMARY CASRN IS 1332-58-7)

ID: 12198-85-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2020-12-23 11:00:04

#: 25.0000 - 35.0000

GS: LT-UNK

RC: None

NANO: No

SUBSTANCE ROLE: Ceramic body

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

CAN

MAK

Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: Substance reported is associated with manufacturing but not the end-use. Such ingredients may also be found in kitchen wares, skincare, and other common household products. Post firing, tiles are non-toxic and non-hazardous in their stable form as described in their respective Safety Data Sheets. See Section 5 General Notes for a list of series covered under this HPD

GRANITE

ID: Not registered

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2020-12-23 11:00:04

%: 10.0000 - 15.0000

GS: NoGS

RC: None

NANO: No

SUBSTANCE ROLE: Ceramic body

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Substance reported is associated with manufacturing but not the end-use. Such ingredients may also be found in kitchen wares, skincare, and other common household products. Post firing, tiles are non-toxic and non-hazardous in their stable form as described in their respective Safety Data Sheets. See Section 5 General Notes for a list of series covered under this HPD

CALCITE (CA(CO3))

ID: 13397-26-7

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: 2020-12-23 11:00:04

%: 8.0000 - 12.0000

GS: NoGS

RC: None

NANO: No

SUBSTANCE ROLE: Ceramic body

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Substance reported is associated with manufacturing but not the end-use. Such ingredients may also be found in kitchen wares, skincare, and other common household products. Post firing, tiles are non-toxic and non-hazardous in their stable form as described in their respective Safety Data Sheets. See Section 5 General Notes for a list of series covered under this HPD

FRITS, CHEMICALS

ID: 65997-18-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: 2020-12-23 11:00:04

%: 1.5000 - 3.0000

GS: LT-P1

RC: None

NANO: No

SUBSTANCE ROLE: Glaze

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters

SUBSTANCE NOTES: Substance reported is associated with manufacturing but not the end-use. Such ingredients may also be found in kitchen wares, skincare, and other common household products. Post firing, tiles are non-toxic and non-hazardous in their stable form as described in their respective Safety Data Sheets. See Section 5 General Notes for a list of series covered under this HPD

SODIUM SILICATE

ID: 1344-09-8

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: 2020-12-23 11:00:05

%: 0.5000 - 1.0000

GS: LT-P1

RC: None

NANO: No

SUBSTANCE ROLE: Ceramic body

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

SUBSTANCE NOTES: Substance reported is associated with manufacturing but not the end-use. Such ingredients may also be found in kitchen wares, skincare, and other common household products. Post firing, tiles are non-toxic and non-hazardous in their stable form as described in their respective Safety Data Sheets. See Section 5 General Notes for a list of series covered under this HPD

NEPHELINE SYENITE

ID: 12251-27-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: 2020-12-23 11:00:05

%: 0.0000 - 0.5000

GS: NoGS

RC: None

NANO: No

SUBSTANCE ROLE: Ceramic body

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Substance reported is associated with manufacturing but not the end-use. Such ingredients may also be found in kitchen wares, skincare, and other common household products. Post firing, tiles are non-toxic and non-hazardous in their stable form as described in their respective Safety Data Sheets. See Section 5 General Notes for a list of series covered under this HPD

ZIRCON (ZR(SIO4))

ID: 14940-68-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2020-12-23 11:00:05
%: 0.0000 - 0.5000	GS: LT-UNK RC: None NANO: No SUBSTANCE ROLE: Ceramic body

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Substance reported is associated with manufacturing but not the end-use. Such ingredients may also be found in kitchen wares, skincare, and other common household products. Post firing, tiles are non-toxic and non-hazardous in their stable form as described in their respective Safety Data Sheets. See Section 5 General Notes for a list of series covered under this HPD

ALUMINUM OXIDE (PRIMARY CASRN IS 1344-28-1)

ID: 90669-62-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2020-12-23 11:00:05
%: 0.0000 - 0.2500	GS: BM-2 RC: None NANO: No SUBSTANCE ROLE: Glaze

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RES	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES: Substance reported is associated with manufacturing but not the end-use. Such ingredients may also be found in kitchen wares, skincare, and other common household products. Post firing, tiles are non-toxic and non-hazardous in their stable form as described in their respective Safety Data Sheets. See Section 5 General Notes for a list of series covered under this HPD

ELECTROLYTES, COBALT-MANUFG.

ID: 121053-28-9

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2020-12-23 11:00:06
%: 0.0000 - 0.2500	GS: LT-1 RC: None NANO: No SUBSTANCE ROLE: Ceramic body

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RES	AOEC - Asthmagens	Asthmagen (G) - generally accepted
CAN	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man
RES	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization
GEN	MAK	Germ Cell Mutagen 3a

SUBSTANCE NOTES: Substance reported is associated with manufacturing but not the end-use. Such ingredients may also be found in kitchen wares, skincare, and other common household products. Post firing, tiles are non-toxic and non-hazardous in their stable form as described in their respective Safety Data Sheets. See Section 5 General Notes for a list of series covered under this HPD

ZINC OXIDE

ID: 1314-13-2

%: **0.0000 - 0.2500**GS: **BM-1**RC: **None**NANO: **No**SUBSTANCE ROLE: **Ceramic body**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
AQU	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life
AQU	EU - GHS (H-Statements)	H410 - Very toxic to aquatic life with long lasting effects
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
RES	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters

SUBSTANCE NOTES: Substance reported is associated with manufacturing but not the end-use. Such ingredients may also be found in kitchen wares, skincare, and other common household products. Post firing, tiles are non-toxic and non-hazardous in their stable form as described in their respective Safety Data Sheets. See Section 5 General Notes for a list of series covered under this HPD

WOLLASTONITEID: **13983-17-0**%: **0.0000 - 0.2500**GS: **LT-UNK**RC: **None**NANO: **No**SUBSTANCE ROLE: **Ceramic body**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Substance reported is associated with manufacturing but not the end-use. Such ingredients may also be found in kitchen wares, skincare, and other common household products. Post firing, tiles are non-toxic and non-hazardous in their stable form as described in their respective Safety Data Sheets. See Section 5 General Notes for a list of series covered under this HPD

MAGNESITEID: **7760-50-1**%: **0.0000 - 0.2500**GS: **LT-UNK**RC: **None**NANO: **No**SUBSTANCE ROLE: **Ceramic body**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Substance reported is associated with manufacturing but not the end-use. Such ingredients may also be found in kitchen wares, skincare, and other common household products. Post firing, tiles are non-toxic and non-hazardous in their stable form as described in their respective Safety Data Sheets. See Section 5 General Notes for a list of series covered under this HPD

QUARTZID: **14808-60-7**%: **0.0000 - 0.2500**GS: **LT-1**RC: **None**NANO: **No**SUBSTANCE ROLE: **Ceramic body**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen
CAN	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CAN	US NIH - Report on Carcinogens	Known to be Human Carcinogen (respirable size - occupational setting)
CAN	MAK	Carcinogen Group 1 - Substances that cause cancer in man
CAN	IARC	Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources
CAN	IARC	Group 1 - Agent is Carcinogenic to humans
CAN	GHS - Australia	H350i - May cause cancer by inhalation
CAN	GHS - New Zealand	6.7A - Known or presumed human carcinogens
CAN	GHS - Japan	Carcinogenicity - Category 1A [H350]

SUBSTANCE NOTES: Substance reported is associated with manufacturing but not the end-use. Such ingredients may also be found in kitchen wares, skincare, and other common household products. Post firing, tiles are non-toxic and non-hazardous in their stable form as described in their respective Safety Data Sheets. See Section 5 General Notes for a list of series covered under this HPD

SODIUM TRIPOLYPHOSPHATE

ID: 13573-18-7

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-12-23 11:00:07	
#: 0.0000 - 0.2500	GS: LT-UNK	RC: None	NANO: No SUBSTANCE ROLE: Ceramic body
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS	
None found		No warnings found on HPD Priority Hazard Lists	

SUBSTANCE NOTES: Substance reported is associated with manufacturing but not the end-use. Such ingredients may also be found in kitchen wares, skincare, and other common household products. Post firing, tiles are non-toxic and non-hazardous in their stable form as described in their respective Safety Data Sheets. See Section 5 General Notes for a list of series covered under this HPD

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	UL/GreenGuard Gold Certified		
<p>CERTIFYING PARTY: Second Party</p> <p>APPLICABLE FACILITIES: Kaleseramik Wall Tiles are largely used as interior and exterior wall coverings. Interior applications are mainly in bathrooms and kitchens in residential applications while the exterior applications can include swimming pools, façades, commercial and industrial applications etc. For interior applications, ceramic wall tiles should be selected regarding the technical specifications such as PEI value, hardness, stain resistance, chemical resistance and easy cleaning, if they are to be used in the interiors of a residence. The tiles selected for exteriors should be frost resistant and have low water absorbency. For outdoor uses they normally have less than 3% water absorption but for internal applications this might rise to 16%. Depending on the use, ceramic tiles might be glazed to control abrasion and slip resistance.</p> <p>CERTIFICATE URL: https://spot.ul.com/customerportal/single-product-details/1895/84543</p> <p>CERTIFICATION AND COMPLIANCE NOTES: UL 2818 - 2013 Standard for Chemical Emissions for Building Materials, Finishes and Furnishings Flooring is determined compliant in accordance with an Office environment with an air change of 0.68 hr⁻¹ and a loading of 11.10 m². Products tested in accordance with UL 2821 test method to show compliance to emission limits in UL 2818, Section 7.1.</p>	<p>ISSUE DATE: 2016-10-31</p>	<p>EXPIRY DATE: 2022-01-31</p>	<p>CERTIFIER OR LAB: UL / GreenGuard Certificate Number 84543-420</p>

VOC EMISSIONS	UL/GreenGuard Certified		
<p>CERTIFYING PARTY: Second Party</p> <p>APPLICABLE FACILITIES: Kaleseramik Wall Tiles are largely used as interior and exterior wall coverings. Interior applications are mainly in bathrooms and kitchens in residential applications while the exterior applications can include swimming pools, façades, commercial and industrial applications etc. For interior applications, ceramic wall tiles should be selected regarding the technical specifications such as PEI value, hardness, stain resistance, chemical resistance and easy cleaning, if they are to be used in the interiors of a residence. The tiles selected for exteriors should be frost resistant and have low water absorbency. For outdoor uses they normally have less than 3% water absorption but for internal applications this might rise to 16%. Depending on the use, ceramic tiles might be glazed to control abrasion and slip resistance.</p> <p>CERTIFICATE URL: https://spot.ul.com/customerportal/single-product-details/1895/84543</p> <p>CERTIFICATION AND COMPLIANCE NOTES: UL 2818 - 2013 Standard for Chemical Emissions for Building Materials, Finishes and Furnishings. Flooring is determined compliant in accordance with an Office environment with an air change of 0.68 hr⁻¹ and a loading of 11.10 m². Products tested in accordance with UL 2821 test method to show compliance to emission limits in UL 2818, Section 7.1.</p>	<p>ISSUE DATE: 2016-10-31</p>	<p>EXPIRY DATE: 2022-01-31</p>	<p>CERTIFIER OR LAB: UL Certificate Number 84543-410</p>

LCA **The International EPD Systems**

CERTIFYING PARTY: Third Party
APPLICABLE FACILITIES: Kaleseramik Wall Tiles are largely used as interior and exterior wall coverings. Interior applications are mainly in bathrooms and kitchens in residential applications while the exterior applications can include swimming pools, façades, commercial and industrial applications etc. For interior applications, ceramic wall tiles should be selected regarding the technical specifications such as PEI value, hardness, stain resistance, chemical resistance and easy cleaning, if they are to be used in the interiors of a residence. The tiles selected for exteriors should be frost resistant and have low water absorbency. For outdoor uses they normally have less than 3% water absorption but for internal applications this might rise to 16%. Depending on the use, ceramic tiles might be glazed to control abrasion and slip resistance. No substances included in the Candidate List of Substances of Very High Concern for authorisation under the REACH Regulations are present in the ceramic tiles manufactured by Kaleseramik, either above the threshold for registration with the European Chemicals Agency or above 0.1% (wt/wt).

ISSUE DATE:
2018-05-28

EXPIRY DATE:
2023-05-14

CERTIFIER OR LAB: EPD International

CERTIFICATE URL:
<https://portal.environdec.com/api/api/v1/EPDLibrary/Files/00d39777-517d-4159-a263-b798063b2af0/Data>

CERTIFICATION AND COMPLIANCE NOTES: The LCA for this EPD is conducted according to the guidelines of ISO 14040/44 and the requirements given in the Product Category Rules (PCR) document for Construction Products and CPC 54 Construction Services (Version 2.2, 2017 05 30) and SUB-PCR-D bricks, blocks, tiles, flagstone of clay and siliceous earths (construction product) with reference to EN 15804 and the general program guidelines by The International EPD System in accordance with ISO 14025 standards. The inventory for the LCA study is based on the 2016 production figures for ceramic wall tiles manufactured by Kaleseramik Çanakkale Kalebodur Seramik Sanayi A.Ş. in their Çan production plant located in Çanakkale, Turkey. The LCA was modelled with SimaPro 8.4 LCA software using the impact factors and the Ecoinvent database (V3.2) for secondary data and Turkish Life Cycle Inventory Database (TLCID) developed by Turkish Centre for Sustainable Production Research and Design (SÜRATAM) for local data.

LCA	CLIMATE DECLARATION
-----	---------------------

CERTIFYING PARTY: Third Party
APPLICABLE FACILITIES: Kaleseramik Wall Tiles are largely used as interior and exterior wall coverings. Interior applications are mainly in bathrooms and kitchens in residential applications while the exterior applications can include swimming pools, façades, commercial and industrial applications etc. For interior applications, ceramic wall tiles should be selected regarding the technical specifications such as PEI value, hardness, stain resistance, chemical resistance and easy cleaning, if they are to be used in the interiors of a residence. The tiles selected for exteriors should be frost resistant and have low water absorbency. For outdoor uses they normally have less than 3% water absorption but for internal applications this might rise to 16%. Depending on the use, ceramic tiles might be glazed to control abrasion and slip resistance. No substances included in the Candidate List of Substances of Very High Concern for authorisation under the REACH Regulations are present in the ceramic tiles manufactured by Kaleseramik, either above the threshold for registration with the European Chemicals Agency or above 0.1% (wt/wt).

ISSUE DATE:
2018-05-28

EXPIRY DATE:
2023-05-14

CERTIFIER OR LAB: EPD International

CERTIFICATE URL:
<https://portal.environdec.com/api/api/v1/EPDLibrary/Files/754ed5d8-1b36-4122-a061-48298b035a02/Data>

CERTIFICATION AND COMPLIANCE NOTES: The table below shows the emissions of greenhouse gases, calculated as carbon dioxide equivalents (kg CO2 eq.) for 1 m2 of ceramic wall tile. This LCA is cradle-to-grave; includes the product, construction/installation, use and end of life stages.

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

Substances contained in the end product that is screened may be flagged by default, but do not play a hazardous role in the end-use of the tile due to inherent characteristics and chemical reactions of tile post-firing. Tiles have been tested using EN, ISO, or compatible methods to obtain product performance metrics. All ceramic tiles are quarried, produced, graded, and packed to their stated specifications as found in Kaleseramik marketing collateral, spec sheet, brochures, and the like. Changes in chemical makeup and exact ratios of minerals in the final product may be a result of changes in manufacturing as well as natural geological changes to the raw ingredients sourced. Tiles are non-hazardous in their stable form and during final use. Kaleseramik recommends special care to be taken during cutting and installation, including the use of gloves, goggles, and respirator masks to prevent inhalation of any potential airborne particles and to prevent any injuries as a result of potentially sharp edges after the material is cut. Dry method cutting and cleanup are not recommended. The certificates and statements pertaining to industry standards contained herein are intended to be current and correct. This HPD complies with section 3.1 of the HPD Collaborative, "Multiple Products in Single Listing"; the products being functionally similar, to include the series found on www.kale.com.tr

MANUFACTURER INFORMATION

MANUFACTURER: Kaleseramik Çanakkale Kalebodur Seramik Sanayi AŞ
ADDRESS: Büyükdere Cad. Kaleseramik Binası
 İstanbul Besiktas 34330, Turkey
WEBSITE: <http://www.kale.com.tr>

CONTACT NAME: Elif Gökhan
TITLE: Environmental Engineer
PHONE: +905496359288
EMAIL: elifgokhan@kale.com.tr

The listed contact is responsible for the validity of this HPD and attests that it is accurate and complete to the best of his or her knowledge.

KEY

Hazard Types

AQU Aquatic toxicity	LAN Land toxicity	PHY Physical hazard (flammable or reactive)
CAN Cancer	MAM Mammalian/systemic/organ toxicity	REP Reproductive
DEV Developmental toxicity	MUL Multiple	RES Respiratory sensitization
END Endocrine activity	NEU Neurotoxicity	SKI Skin sensitization/irritation/corrosivity
EYE Eye irritation/corrosivity	NF Not found on Priority Hazard Lists	UNK Unknown
GEN Gene mutation	OZO Ozone depletion	
GLO Global warming	PBT Persistent, bioaccumulative, and toxic	

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)	LT-1 List Translator 1 (Likely Benchmark-1)
BM-3 Benchmark 3 (use but still opportunity for improvement)	LT-UNK List Translator Benchmark Unknown (the chemical is present on at least one GreenScreen Specified List, but the information contained within the list did not result in a clear mapping to a LT-1 or LTP1 score.)
BM-2 Benchmark 2 (use but search for safer substitutes)	
BM-1 Benchmark 1 (avoid - chemical of high concern)	
BM-U Benchmark Unspecified (due to insufficient data)	
LT-P1 List Translator Possible 1 (Possible Benchmark-1)	NoGS No GreenScreen.

Recycled Types

PreC Pre-consumer recycled content
PostC Post-consumer recycled content
UNK Inclusion of recycled content is unknown
None Does not include recycled content

Other Terms:

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

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.