Section 1: Summary

Based on the selected Content Inventory Threshold:

Characterized....................................................
Are the Percent Weight and Role provided for all substances? Yes  No

Screened........................................................
Are all substances screened using Priority Hazard Lists with results disclosed? Yes  No

Identified......................................................
Are all substances disclosed by Name (Specific or Generic) and Identifier? 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
--- | --- | --- | --- | ---
PORCELAIN CERAMIC TILES AND SLAB | SILICA, AMORPHOUS | LT-P1
SILICA, VITREOUS | LT-UNK
MULLITE (AL6O5(SIO4)2) | 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:

The final product (ceramic porcelain tiles and slabs for floors and walls, for internal and external use), are inert and fully vitrified. Ceramic porcelain tiles are fired at high temperature (1.225 °C or 2.237 °F)

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE

VOC emissions: VOC emissions certificate

See Section 3 for additional listings.
This section lists materials in a product and the substances in each material based on the Inventory Threshold for each material. If residuals or impurities from the manufacturing or extraction processes are considered for a material, these are inventoried and characterized to the extent described in the Material and/or General Notes. Chemical substances are screened against the HPD Priority Hazard Lists for human and environmental health impacts. Screening is based on best available information; "Not Found" does not necessarily mean there is no potential hazard associated with the product or its contents. More information about Priority Hazard Lists and the GreenScreen can be found online: www.hpd-collaborative.org and www.greenscreenchemicals.org.

### PORCELAIN CERAMIC TILES AND SLAB

| Material Notes: the final product is fully vitrified, fired at high temperature (1.225 °C or 2.237 °F) |
|---|---|---|---|---|
| PORCELAIN CERAMIC TILES AND SLAB | %: 100.000 | HPD URL: | Inventory Threshold: 1000 ppm | Residuals Considered: No |

#### SILICA, AMORPHOUS

| ID: 7631-86-9 |
|---|---|---|---|---|
| %: 59.0000 - 69.0000 | GS: LT-P1 | RC: None | NANO: NO | ROLE: component of the final body |

#### HAZARDS:

| AGENCY(IES) WITH WARNINGS:
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>None Found</td>
<td>No warnings found on HPD Priority lists</td>
</tr>
</tbody>
</table>

#### SUBSTANCE NOTES: the final product is fully vitrified, fired at high temperature (1.225 °C or 2.237 °F)

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#### SILICA, VITREOUS

| ID: 11126-22-0 |
|---|---|---|---|---|
| %: 22.0000 - 28.0000 | GS: LT-UNK | RC: None | NANO: NO | ROLE: component of the final body |

#### HAZARDS:

| AGENCY(IES) WITH WARNINGS:
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>None Found</td>
<td>No warnings found on HPD Priority lists</td>
</tr>
</tbody>
</table>

#### SUBSTANCE NOTES: the final product is fully vitrified, fired at high temperature (1.225 °C or 2.237 °F)

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#### MULLITE (AL6O5(SIO4)2)

| ID: 1302-93-8 |
|---|---|---|---|---|
| %: 8.0000 - 12.0000 | GS: LT-UNK | RC: None | NANO: NO | ROLE: component of the final body |

#### HAZARDS:

| AGENCY(IES) WITH WARNINGS:
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>None Found</td>
<td>No warnings found on HPD Priority lists</td>
</tr>
</tbody>
</table>

#### SUBSTANCE NOTES: the final product is fully vitrified, fired at high temperature (1.225 °C or 2.237 °F)
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

| CERTIFYING PARTY: Third Party |
| APPLICABLE FACILITIES: Caesar Ceramics, 35 James Way, Eatontown, NJ 07724 - USA |
| CERTIFICATE URL: |
| CERTIFICATION AND COMPLIANCE NOTES: certificate n° 1100/2017 applicable to Ceramics Caesar USA porcelain stoneware |

| ISSUE DATE: | EXPIRY DATE: |
| 2017-03-23 | 2022-03-22 |

CERTIFIER OR LAB: Main Laboratory Sassuolo

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.

ADHESIVES, SPACERS

| CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: Adhesive must be spread using a notched trowel to ensure an even layer of adhesive. Make sure that the back face of the tile is entirely spread with adhesive (this will ensure perfect adhesion and correct installation of the floor). Spread adhesive on small sections of the screed (1 square metre maximum) to prevent a film forming on the adhesive, which would compromise adhesion; if a film forms, brush the trowel over the adhesive again. Take tiles from several boxes to obtain a random effect and prevent ‘corridors’ or areas that are not attractive to look at. Exert light pressure on the tile in order to ensure perfect adhesion of the back face of the tile. You can use a rubber mallet to tap the surface of the tile (pay attention when using a mallet on white or light coloured surfaces. The rubber coating of the mallet may be black and leave marks that are not easy to remove. If you are installing light coloured tiles, it is recommended to wrap the mallet’s head with gummed paper). Use spacers for obtaining the joints best suiting the type of product chosen and the intended use (by way of example, for elegant tiles joints should be 2/3 mm and for country-style, rustic tiles 3 mm or more). A minimum joint of 2 mm is recommended to avoid installation without joints. |
| HPD URL: No HPD link provided |

Section 5: General Notes

ISO 13006 Ceramic tiles — Definitions, classification, characteristics and marking TERMS AND DEFINITIONS: 1) CERAMIC TILE: thin slab made from clays and/or other inorganic raw materials, generally used as covering for floors and walls, usually shaped by extruding or pressing at room temperature, then dried and subsequently fired at temperatures sufficient to develop the required properties. Tiles may be glazed (GL) or unglazed (UGL); they are incombustible and are not affected by light. 2) PORCELAIN TILE: fully vitrified tile with water absorption coefficient less than or equal to a mass fraction of 0.5 %, belonging to groups AlA and BlA
Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: Ceramiche Caesar
ADDRESS: 35, James Way
Eatontown, NJ 07724
USA
WEBSITE: http://www.caesarceramicsusa.com/

CONTACT NAME: Marco Ferrari
TITLE: vice president
PHONE: +1 7325394972
EMAIL: mferrari@caesar.it

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)
UNK 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

Nano Composed of nanoscale particles or nanotechnology

Declaration Level

Self-declared Manufacturer’s self-declaration (First Party)
Independent Lab Manufacturer’s self-declaration using results from an independent lab
Second Party Verification by trade association or other interested party
Third Party Verification by independent certifier
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 does not provide an assessment of health impacts throughout the product life cycle. It does not provide an assessment of exposure or risk associated with product handling or use. It also does not address potential health impacts of: (i) substances used or created during the manufacturing process unless they remain in the final product, or (ii) substances created after the product is delivered for end use (e.g., if the product burns, degrades, or otherwise changes chemical composition).

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

A disclosure completed in compliance with the HPD Open Standard is referred to as a “Health Product Declaration,” or “HPD.” 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 Open Standard noted.