

CLASSIFICATION: IN CONFORMITY WITH ISO 13006 - ANNEX G GROUP BIA
PRODUCT DESCRIPTION: PORCELAIN STONWARE PRESSED, WATER ABSORPTION LESS THAN 0.5%
FOR FLOOR AND WALLS, FOR INTERNAL AND EXTERNAL USE

created via: HPDC Online Builder

Section 1: Summary

CONTENT INVENTORY

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

Residuals and impurities considered in 0 of 1 materials

- see Section 2: Material Notes
- see Section 5: General Notes

Based on the selected Content Inventory Threshold:

Characterized.....	<input checked="" type="radio"/>	<input type="radio"/>
Are the Percent Weight and Role provided for all substances?	Yes	No
Screened.....	<input checked="" type="radio"/>	<input type="radio"/>
Are all substances screened using Priority Hazard Lists with results disclosed?	Yes	No
Identified.....	<input checked="" type="radio"/>	<input type="radio"/>
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.

Number of Greenscreen BM-4/BM3 contents..... 0
Contents highest concern GreenScreen Benchmark or List translator Score..... LT-P1
Nanomaterial..... No

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

PORCELAIN CERAMIC TILES AND SLABS [SILICA, AMORPHOUS **LT-P1**
SILICA, VITREOUS **LT-UNK** MULLITE (AL6O5(SIO4)2) **LT-UNK**]

INVENTORY AND SCREENING NOTES:

The final product (ceramic porcelain tiles and slabs for floor and walls, for internal and external use), are inert and fully vetrified. 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
VOC emissions: GreenGuard
Management: ISO 9001
Recycled content: Recycled content certification

See Section 3 for additional listings.

<input checked="" type="radio"/> Self-Published*	VERIFIER:	SCREENING DATE: March 31, 2017	EXPIRY DATE*: March 31, 2020
<input type="radio"/> Third Party Verified	VERIFICATION #:	RELEASE DATE: March 31, 2017	* or within 3 months of significant change in product contents
*See HPDC website for details			



Section 2: Content in Descending Order of Quantity

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 SLABS

%: 100.0000

HPD URL:

Inventory Threshold: 1000 ppm

Residuals Considered: No

Material Notes: the final product is fully vetrified, fired at high temperature (1.225 °C or 2.237 °F)

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:

None Found

No warnings found on HPD Priority lists

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

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:

None Found

No warnings found on HPD Priority lists

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

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:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: the final product is fully vetrified, 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.

MANAGEMENT

CERTIFYING PARTY: Third Party
APPLICABLE FACILITIES: Mirage Granito Ceramico spa, Via Giardini Nord 225 41026 Pavullo nel Frignano (MO) Italy
CERTIFICATE URL: www.mirage.it

CERTIFICATION AND COMPLIANCE NOTES: scope: design, manufacture and sale of porcelain stoneware ceramic tiles

ISO 9001

ISSUE DATE: 2015-11-28 EXPIRY DATE: 2018-09-15 CERTIFIER OR LAB: DNV-GL

VOC EMISSIONS

CERTIFYING PARTY: Third Party
APPLICABLE FACILITIES: Mirage Granito Ceramico spa
CERTIFICATE URL:
CERTIFICATION AND COMPLIANCE NOTES: certificate n° 3644-2015 applicable to Mirage porcelain stoneware

VOC emissions certificate

ISSUE DATE: 2015-09-09 EXPIRY DATE: 2020-09-09 CERTIFIER OR LAB: Main Laboratory Sassuolo

RECYCLED CONTENT

CERTIFYING PARTY: Third Party
APPLICABLE FACILITIES: Mirage Granito Ceramico spa
CERTIFICATE URL:
CERTIFICATION AND COMPLIANCE NOTES: pre-consumer recycled material certification by DNV-GL

Recycled content certification

ISSUE DATE: 2015-09-01 EXPIRY DATE: 2018-09-18 CERTIFIER OR LAB: DNV-GL

VOC EMISSIONS

CERTIFYING PARTY: Third Party
APPLICABLE FACILITIES: Mirage Granito Ceramico spa
CERTIFICATE URL:
CERTIFICATION AND COMPLIANCE NOTES: low chemical - VOC emissions

GreenGuard

ISSUE DATE: 2014-05-20 EXPIRY DATE: 0000-00-00 CERTIFIER OR LAB: UL



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.

ADHESIVE, SPACERS, GROUT

HPD URL: No HPD link provided

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: Upon receipt of the material and, in any case before it is laid, careful verification of the shade, work size and choice of material is important, because claims on laid materials cannot be accepted, if their defects were visible before laying. To obtain the best possible visual results for products with ? V2 shading coefficient, lay the materials taking the tiles from several different boxes in order to achieve the best possible mix. For veined products, and for natural stones, the slab veins should be arranged to obtain the best aesthetic and chromatic effect. Laying can be effected both with a dusting of cement and with glue, using specific adhesives offering high performance for porcelain stoneware. Glue laying is highly recommended as it offers a greater seal, particularly on large sizes (greater than 45 X 45). Please, remember that, when laying, the bed must be stable, dry and mature, not frosted, and not too hot. In any event, follow the instructions of the producers of materials for beds and for the specific adhesives used. Cement-based adhesives must be applied at ambient temperature, and, in general, between +5°C and +30/35°C. It is understood that, for laying too, it is necessary to comply with the technical times indicated by the producers of the adhesives being used. The adhesives most suitable for laying Mirage porcelain stoneware can be identified according to the current European Standard EN12004. When laying, do not mark the surface of the material with pencils (graphite) or with indelible felt tip pens, especially in the case of polished products. Although Mirage products are made of highly resistant materials, they can be shaped (for making tops, stairs...) or drilled for installing technical-sanitaryware, using specific diamond wheel cutters and equipment for porcelain stoneware. Joints and groutse The width of the joint can vary according to tile dimensions and the floor's intended use. Jointless laying is not recommended, whereas laying with a minimum joint of 2-3 mm is advisable (this type of laying enables greater grip by the jointing material on the tile sides, greater absorption of any sub-bed movements and tile compensation). In very large areas, it is essential to position expansion joints at regular intervals; whereas, for small areas, it is sufficient to leave a slight gap between the tiled area and the perimeter walls. The skirting board will cover the gap, lending a finished appearance. In any event, follow the advice/suggestions of the designer or site manager. To use epoxy grouts, additions of resin or the like, it is advisable to carry out a true preparatory cleaning test. For better appearance, we suggest using grouts in a shade matching the colour of the tile in order to reduce contrast (e.g. white tile and black grout), especially for lapped and polished products. After you have grouted tiles in porcelain stoneware, while the grout is still fresh, it is important, to immediately and carefully remove excess grout, with a sponge and plenty of water. However, several days after laying, it is necessary to clean thoroughly by means of buffered acids (see the post-laying suggestions) in order to dissolve and fully remove site residues.



Section 5: General Notes

ISO 13006 Ceramic tiles - 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 (A) or pressing (B) 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



MANUFACTURER INFORMATION

MANUFACTURER: Mirage Granito Ceramico spa

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

LT-1 List Translator Likely Benchmark 1

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

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

BM-U Benchmark Unspecified (insufficient data 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.