

HPD UNIQUE IDENTIFIER: 31813

CLASSIFICATION: 09 30 13 Ceramic Tiling

PRODUCT DESCRIPTION: Porcelain stoneware tiles, with water absorption less than 0,5% in accordance with ANSI A137.1 and ANSI 137.3, ISO 13006 and EN 14411, composed of a very fine mixture of quality raw materials, manufactured by dry pressing of atomized powders and subsequently sintered by industrial firing at temperatures above 1200°C. The complete vitrification of the tiles allows for a compact, non-absorbent, frost-proof product, resistant to bending, impacts, staining, chemical attack and thermal shock

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format	Threshold Level	Residuals/Impurities Evaluation	For all contents above the threshold, the manufacturer has:
<input checked="" type="radio"/> Nested Materials Method <input checked="" type="radio"/> Basic Method	<input checked="" type="radio"/> 100 ppm <input type="radio"/> 1,000 ppm <input type="radio"/> Per GHS SDS <input type="radio"/> Other	<input checked="" type="radio"/> Completed <input type="radio"/> Partially Completed <input type="radio"/> Not Completed Explanation(s) provided : <input checked="" type="radio"/> Yes <input type="radio"/> No	Characterized <input checked="" type="radio"/> Yes <input type="radio"/> No Provided weight and role. Screened <input checked="" type="radio"/> Yes <input type="radio"/> No Provided screening results using HPDC-approved methods. Identified <input checked="" type="radio"/> Yes <input type="radio"/> No Provided name and CAS RN or other identifier.
Threshold Disclosed Per <input type="radio"/> Material <input checked="" type="radio"/> Product			

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.

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

PANARIAGROUP PORCELAIN TILES [**SILICON DIOXIDE** BM-1 | CAN | MAM **ALUMINUM OXIDE** BM-2 | MAM **POTASSIUM OXIDE** BM-2 **FERRIC OXIDE** BM-1 | CAN | MAM | EYE | SKI **SODIUM OXIDE** BM-2 **CALCIUM OXIDE** BM-2 | SKI | MAM | EYE **TITANIUM DIOXIDE** LT-1 | CAN | END | MAM **MAGNESIUM OXIDE** BM-3dg | CAN **ZINC OXIDE** BM-1 | END | MUL | AQU | MAM | REP **STRONTIUM OXIDE** LT-UNK **POLYMETHYLENE POLYPHENYL ISOCYANATE** LT-UNK | CAN | RES | EYE | SKI | MAM **C.I. PIGMENT BLUE 72** LT-1 | CAN | RES | GEN **FRITS, CHEMICALS** LT-P1 | MUL **SODIUM SILICATE** LT-P1 | END | SKI | EYE **C.I. PIGMENT BLACK 27** LT-1 | CAN | RES | GEN **ZIRCON (ZR(SIO4))** BM-2 **C.I. PIGMENT YELLOW 159** LT-UNK **FIBERGLASS** LT-UNK **GAMMA-GLYCIDOPROPYLTRIMETHOXYSILANE** LT-P1 | MUL | EYE]

Number of Greenscreen BM-4/BM3 contents ... 1

Contents highest-concern GreenScreen score(s) (BM-1, LT-1, LT-P1) ... BM-1, LT-1, LT-P1

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

Ceramic tile is considered as a single component resulting from the vitrification process in the high temperature kiln process. No warnings or hazards are associated with the final, finished product.

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

LCA: Environmental Product Declaration (EPD)

Management: ISO 9001:2015 Quality management systems

Management: Eco-Management and Audit Scheme (EMAS) Registration

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Option 1.

Pre-checked for LEED v4.1 Option 1.

Third Party Verified?

Yes

No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2023-03-16

PUBLISHED DATE: 2023-03-16

EXPIRY DATE: 2026-03-16

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 2.3, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-3-standard

PANARIAGROUP PORCELAIN TILES

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes

RESIDUALS AND IMPURITIES NOTES: Panariagroup porcelain tiles don't contain any hazardous residuals and/or impurities. No warnings or hazards are associated with the product.

OTHER PRODUCT NOTES: During the production cycle, a combination of high pressure and very high temperatures, create chemical and physical reactions obtaining a fully vitrified porcelain tile. Panariagroup's Porcelain Tiles are classified as inert and are not dangerous for human health.

SILICON DIOXIDE

ID: 7631-86-9

HAZARD DATA SOURCE: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2023-03-16 2:52:05

#: 50.0000 - 70.0000 GreenScreen: BM-1 RC: PreC NANO: No SUBSTANCE ROLE: Ceramic body

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
CAN	GHS - Japan	H350 - May cause cancer [Carcinogenicity - Category 1A]
CAN	GHS - Australia	H350i - May cause cancer by inhalation [Carcinogenicity - Category 1A or 1B]
MAM	GHS - Japan	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]
MAM	GHS - Australia	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organ toxicity - repeated exposure - Category 1]
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Green Science Policy Institute (GSPI)	GSPI - Six Classes of Problematic Chemicals Antimicrobials

SUBSTANCE NOTES: Range due to variations in product family. Pre consumer recycled material can be used for this substance. Hazard associated with occupational/manufacturing use only. It is not associated with the end use of the final fired product that is purchased and used by the customer.

ALUMINUM OXIDE

ID: 1344-28-1

HAZARD DATA SOURCE: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2023-03-16 2:52:05

#: 5.0000 - 20.0000 GreenScreen: BM-2 RC: PreC NANO: No SUBSTANCE ROLE: Ceramic body

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
MAM	GHS - Japan	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Biological and Environmentally Released Materials
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Children's Products

SUBSTANCE NOTES: Range due to variations in product family. Pre consumer recycled material can be used for this substance. Hazard associated with occupational/manufacturing use only. It is not associated with the end use of the final fired product that is purchased and used by the customer.

POTASSIUM OXIDE

ID: 12136-45-7

HAZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2023-03-16 2:52:06		
%: 0.0000 - 10.0000	GreenScreen: BM-2	RC: PreC	NANO: No	SUBSTANCE ROLE: Ceramic body
HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION		
None found		No listings found on Additional Hazard Lists		

SUBSTANCE NOTES: Range due to variations in product family. Pre consumer recycled material can be used for this substance. Hazard associated with occupational/manufacturing use only. It is not associated with the end use of the final fired product that is purchased and used by the customer.

FERRIC OXIDE

ID: 1309-37-1

HAZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2023-03-16 2:52:07		
%: 0.0000 - 10.0000	GreenScreen: BM-1	RC: PreC	NANO: No	SUBSTANCE ROLE: Ceramic body

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
CAN	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification
MAM	GHS - Japan	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]
EYE	GHS - Japan	H318 - Causes serious eye damage [Serious eye damage / eye irritation - Category 1]
SKI	GHS - Japan	H315 - Causes skin irritation [Skin corrosion / irritation - Category 2]

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

SUBSTANCE NOTES: Range due to variations in product family. Pre consumer recycled material can be used for this substance. Hazard associated with occupational/manufacturing use only. It is not associated with the end use of the final fired product that is purchased and used by the customer.

SODIUM OXIDE

ID: 1313-59-3

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-03-16 2:52:07**

%: **0.0000 - 10.0000** GreenScreen: **BM-2** RC: **PreC** NANO: **No** SUBSTANCE ROLE: **Ceramic body**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

SUBSTANCE NOTES: Range due to variations in product family. Pre consumer recycled material can be used for this substance. Hazard associated with occupational/manufacturing use only. It is not associated with the end use of the final fired product that is purchased and used by the customer.

CALCIUM OXIDE

ID: 60873-85-0

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-03-16 2:52:05**

%: **0.0000 - 5.0000** GreenScreen: **BM-2** RC: **PreC** NANO: **No** SUBSTANCE ROLE: **Ceramic body**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
SKI	GHS - Australia	H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]
MAM	GHS - Japan	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]
MAM	GHS - Japan	H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1]
SKI	GHS - New Zealand	Skin corrosion category 1C
EYE	GHS - New Zealand	Serious eye damage category 1
EYE	GHS - Japan	H318 - Causes serious eye damage [Serious eye damage / eye irritation - Category 1]
SKI	GHS - Japan	H315 - Causes skin irritation [Skin corrosion / irritation - Category 2]
EYE	GHS - Australia	H318 - Causes serious eye damage [Serious eye damage/eye irritation - Category 1]

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Green Science Policy Institute (GSPI)	GSPI - Six Classes of Problematic Chemicals Antimicrobials

SUBSTANCE NOTES: Range due to variations in product family. Pre consumer recycled material can be used for this substance. Hazard associated with occupational/manufacturing use only. It is not associated with the end use of the final fired product that is purchased and used by the customer.

TITANIUM DIOXIDE

ID: 13463-67-7

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-03-16 2:52:06**

#: **0.0000 - 5.0000** GreenScreen: **LT-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Ceramic body**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen
CAN	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CAN	IARC	Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
CAN	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CAN	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels
CAN	EU - GHS (H-Statements) Annex 6 Table 3-1	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]
CAN	GHS - Japan	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]
MAM	GHS - Japan	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]
CAN	EU - Annex VI CMRs	Carcinogen Category 2 - Suspected human Carcinogen

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Cosmetics & Personal Care Products
POSITIVE LIST	US Environmental Protection Agency (US EPA)	US EPA - DfE Safer Chemicals Ingredients list (SCIL) Colorants - Green Circle (Verified Low Concern)
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Formulated Consumer Products

SUBSTANCE NOTES: Range due to variations in product family. Pre consumer recycled material can be used for this substance. Hazard associated with occupational/manufacturing use only. It is not associated with the end use of the final fired product that is purchased and used by the customer.

MAGNESIUM OXIDE

ID: 1309-48-4

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-03-16 2:52:06**

%: **0.0000 - 1.0000** GreenScreen: **BM-3dg** RC: **None** NANO: **No** SUBSTANCE ROLE: **Ceramic body**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
CAN	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard 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 and used by the customer.

ZINC OXIDE

ID: 1314-13-2

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-03-16 2:52:07**

%: **0.0000 - 1.0000** GreenScreen: **BM-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Glaze**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
AQU	EU - GHS (H-Statements) Annex 6 Table 3-1	H400 - Very toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 1]
AQU	EU - GHS (H-Statements) Annex 6 Table 3-1	H410 - Very toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 1]
MAM	GHS - Japan	H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1]
AQU	GHS - New Zealand	Hazardous to the aquatic environment - acute category 1
AQU	GHS - Japan	H400 - Very toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 1]
AQU	GHS - Japan	H410 - Very toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 1]
AQU	GHS - Australia	H410 - Very toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 1]
AQU	GHS - New Zealand	Hazardous to the aquatic environment - chronic category 1
REP	GHS - Japan	H361 - Suspected of damaging fertility or the unborn child [Toxic to reproduction - Category 2]
AQU	GHS - Malaysia	H410 - Very toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 1]
AQU	GHS - Malaysia	H400 - Very toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 1]

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Green Science Policy Institute (GSPI)	GSPI - Six Classes of Problematic Chemicals Antimicrobials
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPPI)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Biological and Environmentally Released Materials
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPPI)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Children's Products

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 and used by the customer.

STRONTIUM OXIDE

ID: 1314-11-0

HAZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2023-03-16 2:52:08		
#: 0.0000 - 0.5000	GreenScreen: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Ceramic body
HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION		
None found		No listings found on Additional Hazard 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 and used by the customer.

POLYMETHYLENE POLYPHENYL ISOCYANATE

ID: 9016-87-9

HAZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2023-03-16 2:52:08		
#: 0.0000 - 0.5000	GreenScreen: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Polymer species

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
CAN	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels
RES	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization
EYE	GHS - New Zealand	Eye irritation category 2
SKI	GHS - Australia	H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]
EYE	GHS - Australia	H319 - Causes serious eye irritation [Serious eye damage/eye irritation - Category 2A]
MAM	GHS - Australia	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organ toxicity - repeated exposure - Category 1]
MAM	GHS - New Zealand	Specific target organ toxicity - repeated exposure category 1
MAM	GHS - New Zealand	Acute inhalation toxicity category 2
MAM	Québec CSST - WHMIS 1988	Class D1A - Very toxic material causing immediate and serious toxic effects
MAM	GHS - Australia	H330 - Fatal if inhaled [Acute toxicity (inhalation) - Category 1 or 2]
CAN	GHS - Australia	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Perkins+Will (P+W)	P&W - Precautionary List Precautionary list of substances recommended for avoidance

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 and used by the customer.

C.I. PIGMENT BLUE 72

ID: 68186-87-8

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-03-16 2:52:09**

#: **0.0000 - 0.5000** GreenScreen: **LT-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Pigment**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
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

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Biological and Environmentally Released Materials
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Children's Products

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 and used by the customer.

FRITS, CHEMICALS

ID: 65997-18-4

HAZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2023-03-16 2:52:09		
%: 0.0000 - 0.5000	GreenScreen: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Glaze
HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS		
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters		
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION		
None found		No listings found on Additional Hazard 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 and used by the customer.

SODIUM SILICATE

ID: 1344-09-8

HAZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2023-03-16 2:52:10		
%: 0.0000 - 0.5000	GreenScreen: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Ceramic body
HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS		
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor		
SKI	GHS - New Zealand	Skin corrosion category 1C		
EYE	GHS - New Zealand	Serious eye damage category 1		
SKI	GHS - Australia	H314 - Causes severe skin burns and eye damage [Skin corrosion/irritation - Category 1A or 1B or 1C]		
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION		
RESTRICTED LIST	Green Science Policy Institute (GSPI)	GSPI - Six Classes of Problematic Chemicals Antimicrobials		

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 and used by the customer.

C.I. PIGMENT BLACK 27

ID: 68186-97-0

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-03-16 2:52:11**

%: **0.0000 - 0.1000** GreenScreen: **LT-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Pigment**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
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
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Biological and Environmentally Released Materials
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Children's Products

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 and used by the customer.

ZIRCON (ZR(SIO4))

ID: 14940-68-2

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-03-16 2:52:08**

%: **0.0000 - 0.1000** GreenScreen: **BM-2** RC: **None** NANO: **No** SUBSTANCE ROLE: **Pigment**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard 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 and used by the customer.

C.I. PIGMENT YELLOW 159

ID: 68187-15-5

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-03-16 2:52:09**

%: **0.0000 - 0.1000** GreenScreen: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Pigment**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard 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 and used by the customer.

FIBERGLASS

ID: 65997-17-3

HAZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2023-03-16 2:52:09		
#: 0.0000 - 0.1000	GreenScreen: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Glass component
HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION		
EXEMPT	European Union / European Commission (EU EC)	EU - REACH Exemptions Exempted from REACH Annex V listing due to intrinsic safety		

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 and used by the customer.

GAMMA-GLYCIDOXYPROPYLTRIMETHOXYSILANE

ID: 2530-83-8

HAZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2023-03-16 2:52:10		
#: 0.0000 - 0.1000	GreenScreen: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Polymer species
HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS		
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters		
EYE	GHS - New Zealand	Eye irritation category 2		
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION		
None found		No listings found on Additional Hazard 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 and used by the customer.

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	
CERTIFYING PARTY: Third Party	ISSUE DATE: 2019-10-18	CERTIFIER OR LAB: UL
APPLICABLE FACILITIES: Panariagroup Industrie Ceramiche SpA - Via Panaria Bassa 22/a, Finale Emilia (MO) Italy - Via dell'Industria 13, Fora di Cavola (RE) Italy - Via Cameazzo 21, Fiorano Modenese (MO) Italy	EXPIRY DATE: 2023-09-30	
CERTIFICATE URL:		
CERTIFICATION AND COMPLIANCE NOTES: Panariagroup Porcelain Tiles are manufactured by firing at temperature above 1200°C, so they don't contain and relise, in conditions of use, any kind of Volatile Organic Compounds		

LCA	Environmental Product Declaration (EPD)	
CERTIFYING PARTY: Third Party	ISSUE DATE: 2018-11-25	CERTIFIER OR LAB: EPD Italy
APPLICABLE FACILITIES: Panariagroup Industrie Ceramiche SpA - Via Panaria Bassa 22/a, Finale Emilia (MO) Italy - Via dell'Industria 13, Fora di Cavola (RE) Italy - Via Cameazzo 21, Fiorano Modenese (MO) Italy	EXPIRY DATE: 2023-11-24	
CERTIFICATE URL:		
CERTIFICATION AND COMPLIANCE NOTES: According to ISO 14025 - EN 15084		

MANAGEMENT	ISO 9001:2015 Quality management systems	
CERTIFYING PARTY: Third Party	ISSUE DATE: 2003-09-23	CERTIFIER OR LAB: Certiquality
APPLICABLE FACILITIES: Panariagroup Industrie Ceramiche SpA - Via Panaria Bassa 22/a, Finale Emilia (MO) Italy - Via dell'Industria 13, Fora di Cavola (RE) Italy - Via Cameazzo 21, Fiorano Modenese (MO) Italy	EXPIRY DATE: 2024-06-27	
CERTIFICATE URL:		
CERTIFICATION AND COMPLIANCE NOTES:		

MANAGEMENT	Eco-Management and Audit Scheme (EMAS) Registration	
CERTIFYING PARTY: Third Party	ISSUE DATE: 2005-04-14	CERTIFIER OR LAB: Comitato Ecolabel - Sezione EMAS Italia
APPLICABLE FACILITIES: Panariagroup Industrie Ceramiche SpA - Via Panaria Bassa 22/a, Finale Emilia (MO) Italy - Via dell'Industria 13, Fora di Cavola (RE) Italy - Via Cameazzo 21, Fiorano Modenese (MO) Italy	EXPIRY DATE: 2025-09-06	
CERTIFICATE URL:		
CERTIFICATION AND COMPLIANCE NOTES:		

RECYCLED CONTENT	Recycled Content Certification	
CERTIFYING PARTY: Third Party	ISSUE DATE: 2009-07-28	CERTIFIER OR LAB: Certiquality
APPLICABLE FACILITIES: Panariagroup Industrie Ceramiche SpA - Via Panaria Bassa 22/a, Finale Emilia (MO) Italy - Via dell'Industria 13, Fora di Cavola (RE) Italy - Via Cameazzo 21, Fiorano Modenese (MO) Italy	EXPIRY DATE: 2024-07-27	
CERTIFICATE URL:		
CERTIFICATION AND COMPLIANCE NOTES: DT 55 ED 02 100915 - Technical document for product certification of costruction products with the specified percentage of recycled material: Ceramic Tiles and Sem-finished items for the production thereof.		

MANAGEMENT	ISO 14001:2015 Environmental management systems	
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CERTIFYING PARTY: Third Party

ISSUE DATE: 2003-09-24

CERTIFIER OR LAB: Certiquality

APPLICABLE FACILITIES: Panariagroup Industrie

EXPIRY DATE: 2024-06-27

Ceramiche SpA - Via Panaria Bassa 22/a, Finale Emilia

(MO) Italy - Via dell'Industria 13, Fora di Cavola (RE) Italy -

Via Cameazzo 21, Fiorano Modenese (MO) Italy

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.

ADHESIVES

MANUFACTURER (OR GENERIC): **Generic**

HPD URL: No HPD available

ACCESSORY TYPE: Adhesive

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: Accessory materials are required for all bedded installations. VOC content of various mortars and grouts depends on the product selected.

E Section 5: General Notes

This HPD covers all Panariagroup products in general, marketed under brands Cotto d'Este, Lea Ceramiche, Panaria Ceramica, Blustyle, Love Tiles, Margres, Maxa and Florida Tile, including those with and without a fiberglass mesh.

The formulation of all products are the same, with the variability coming from the thickness of the product, as well as the inclusion of the fiberglass mesh.

MANUFACTURER INFORMATION

MANUFACTURER: Panariagroup Industrie Ceramiche S.p.A.
ADDRESS: Via Panaria Bassa, 22/A
 Finale Emilia Modena 41034, Italia
WEBSITE: www.panariagroup.it

CONTACT NAME: Marco Levoni
TITLE: Quality Manager
PHONE: 0039053595111
EMAIL: marco.levoni@panariagroup.it

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-P1 List Translator Possible 1 (Possible Benchmark-1)
BM-3 Benchmark 3 (use but still opportunity for improvement)	LT-1 List Translator 1 (Likely Benchmark-1)
BM-2 Benchmark 2 (use but search for safer substitutes)	LT-UNK List Translator Benchmark Unknown
BM-1 Benchmark 1 (avoid - chemical of high concern)	NoGS No GreenScreen.
BM-U Benchmark Unspecified (due to insufficient data)	

GreenScreen Benchmark scores sometimes also carry subscripts, which provide more context for how the score was determined. These are DG (data gap), TP (transformation product), and CoHC (chemical of high concern). For more information, see 2.2.2.4 GreenScreen® for Safer Chemicals, www.greenscreenchemicals.org, and Best Practices for Hazard Screening on the HPDC website (hpd-collaborative.org).

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.