

HPD UNIQUE IDENTIFIER: 1546811392
CLASSIFICATION: 09 30 13 Ceramic Tiling
PRODUCT DESCRIPTION: The tile products covered in this HPD include: A06GZRCC-CCG.M2R, A06GMIMS-GRY.M0X0R, A06GLPSE-OGL.M6X0R, A06GZONX-IV0.G0P, A06GTCMB-BTV.X0X0P, A06GRDIL-DKG.M0X0R, AGB06FNSELIGZMLNLR, A06GZSHS-IV0.M2R, A06GZSUR-MGY.M0R, A12GPAEO-BEE.A0X5R. The sustainable and high-performance porcelain tiles are manufactured with up to 25% recycled materials from waste generated during the manufacturing process of tiles.

Section 1: Summary

Nested Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format	Threshold Level	Residuals/Impurities Evaluation	For all contents above the threshold, the manufacturer has:
☒ Nested Materials Method	☒ 100 ppm	Completed in 7 of 7 Materials	Characterized ☒ Yes ☐ No
☐ Basic Method	☐ 1,000 ppm	Explanation(s) provided for Residuals/Impurities?	<i>Provided weight and role.</i>
Threshold Disclosed Per	☐ Per GHS SDS	☒ Yes ☐ No	Screened ☒ Yes ☐ No
☐ Material	☐ Other		<i>Provided screening results using HPDC-approved methods.</i>
☒ Product			Identified ☒ Yes ☐ No
			<i>Provided name and CAS RN or other identifier.</i>

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.

NESTED MATERIAL | MATERIAL OR SUBSTANCE | RESIDUAL OR IMPURITY
GREENSCREEN SCORE | HAZARD TYPE
BALL CLAY [BALL CLAY] FLUX [FELDSPAR LT-UNK] MAM [RECOVERED SCRAP [SCRAP MATERIALS] BODY COMPONENT 2 [CLAY] BODY COMPONENT 1 [KAOLIN LT-UNK] CAN QUARTZ BM-1*] CAN | MAM | GEN [NATURAL CLAY [BENTONITE LT-UNK QUARTZ BM-1*] CAN | MAM | GEN] SLUDGE [ETP SLUDGE]

Number of Greenscreen BM-4/BM3 contents ... 0
Contents highest-concern GreenScreen score(s) (BM-1, LT-1, LT-P1) ... None
Nanomaterial ... No

INVENTORY AND SCREENING NOTES:
Special Conditions applied: [GeologicalMaterial]
Special Conditions applied: [MixedRecycledContent]

This HPD was produced using primary information from the manufacturer, including CAS numbers and SDS when needed. The manufacturer has made every effort to report the substances in this product to the listed threshold. This is a voluntary, self-reported effort. Any errors or omissions shall be considered a human error and therefore reported to the manufacturer. The manufacturer shall not be liable for omissions.

*Form-Specific Hazard: This substance's GreenScreen Benchmark or List Translator score and the applicable hazards are related to particulate inhalation, which is expected to occur only during manufacture, installation, maintenance, or demolition, due to activities such as sawing, sanding, grinding, or intensive cleaning. For this reason, this score is intentionally omitted from the "Contents highest concern" line above. See HPDC's Special Conditions policy for more information.

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: CDPH Standard Method V1.2 (Section 01350/CHPS) - Classroom & Office scenario
VOC emissions: RFCI FloorScore
BS EN ISO 10545-15:1997 with ICP-OES (Lead & Cadmium): Metal Release Analysis
Radioactivity: Radioactivity Test

CONSISTENCY WITH OTHER PROGRAMS
No pre-checks completed or disclosed.

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

BALL CLAY %: 35.0000 - 40.0000

PRODUCT THRESHOLD: 100 ppm	RESIDUALS AND IMPURITIES EVALUATION COMPLETED: No	MATERIAL TYPE: Geologically Derived Material
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RESIDUALS AND IMPURITIES NOTES: Residuals and impurities are considered following the HPD Best Practice Guidance, 10.02.17, version 1 “The threshold applied to Residuals and Impurities (R/I) is the same as that applied to intentionally added substances, i.e., 100 ppm or 1000 ppm. Residuals and impurities below the declared Inventory Threshold do not need to be reported on the HPD.” This includes average data declared in the common product database or peer-reviewed scientific articles. For this product, no actual material has been tested. Therefore, residuals and impurities are for informational purposes only and are not a guarantee of presence in the actual building material. Pharos and PubChem (formerly TOXNET) are the main databases for researching potential residuals and impurities. Any R/I above the threshold shall be listed on the HPD; otherwise, if none are listed, then no residuals or impurities are common in that substance above the threshold.

OTHER MATERIAL NOTES: Percentages are shown in range due to variable composition of naturally occurring materials.

BALL CLAY

ID: Geological Material

HAZARD DATA SOURCE: HPDC Special Conditions Policy

%: 100.0000	GreenScreen: Not Required	RC: UNK	NANO: No	MATERIAL ROLE: Ceramic body
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HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
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Hazard Screening is not applicable to this Special Condition

INGREDIENT DESCRIPTION AND COMPOSITION: Ball clays are kaolinitic clays that commonly consist of 20–80% kaolinite, 10–25% mica, 6–65% quartz, as well as organic matter. (IMERYS)

COUNTRY OF ORIGIN: Unknown

RADIOACTIVE ELEMENTS: Unknown

POTENTIAL PRESENCE OF TOXIC METALS: Unknown

MATERIAL CONTENT NOTES: Ball clay is a silicate clay rock of which kaolinite is the main constituent: Al2Si2O5(OH)4. (IMERYS)

This disclosure does not provide potential presence of radioactive elements which may be found in certain geological materials.

This disclosure does not provide potential presence of toxic metals which may be found in certain geological materials.

FLUX %: 22.0000 - 30.0000

PRODUCT THRESHOLD: 100 ppm	RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes	MATERIAL TYPE: Geologically Derived Material
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RESIDUALS AND IMPURITIES NOTES: Residuals and impurities are considered following the HPD Best Practice Guidance, 10.02.17, version 1 “The threshold applied to Residuals and Impurities (R/I) is the same as that applied to intentionally added substances, i.e., 100 ppm or 1000 ppm. Residuals and impurities below the declared Inventory Threshold do not need to be reported on the HPD.” This includes average data declared in the common product database or peer-reviewed scientific articles. For this product, no actual material has been tested. Therefore, residuals and impurities are for informational purposes only and are not a guarantee of presence in the actual building material. Pharos and PubChem (formerly TOXNET) are the main databases for researching potential residuals and impurities. Any R/I above the threshold shall be listed on the HPD; otherwise, if none are listed, then no residuals or impurities are common in that substance above the threshold.

OTHER MATERIAL NOTES: Percentages specified are typical and do not represent a specification.

FELDSPAR			ID: 68476-25-5		
HAZARD DATA SOURCE: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2023-11-22 7:17:57		
%: 99.0000	GreenScreen: LT-UNK	RC: UNK	NANO: No	SUBSTANCE ROLE: Flux	
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS		
MAM	GHS - New Zealand		Specific target organ toxicity - repeated exposure category 1		
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION		
None found			No listings found on Additional Hazard Lists		
SUBSTANCE NOTES: Feldspar is "an inorganic substance that is the reaction product of high temperature calcination in which aluminum oxide, barium oxide, calcium oxide, magnesium oxide, silicon oxide, and strontium oxide in varying amounts are homogeneously and ionically interdiffused to form a crystalline matrix." (EPA SRS)-Per the Pharos Database.					

RECOVERED SCRAP	%: 10.0000 - 17.0000				
PRODUCT THRESHOLD: 100 ppm	RESIDUALS AND IMPURITIES EVALUATION COMPLETED: No		MATERIAL TYPE: Other: Recovered Scrap/ Ceramic waste		

RESIDUALS AND IMPURITIES NOTES: No residuals or impurities are considered for this material.

OTHER MATERIAL NOTES: It consists of 100% Pre-consumer ceramic waste refers to discarded or unused ceramic materials generated during the manufacturing process. This type of waste includes imperfect or rejected ceramic items, greenware (unfired ceramic pieces), crushed fired tiles, polishing sludge, excess raw materials, and other by-products produced in the various stages of ceramic production.

HAZARD DATA SOURCE: HPDC Special Conditions Policy

%: 100.0000 GreenScreen: Not Required RC: PreC NANO: No MATERIAL ROLE: Ceramic body

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
Hazard Screening is not applicable to this Special Condition		

INGREDIENT DESCRIPTION: The composition of this scrap or recycled material is mainly composed of Clay; a main raw-material in the Porcelain tile production.

ANALYTICAL TESTING: For this product, no actual material has been tested. The manufacturer has made every effort to report the all contents of this material. This is a voluntary, self-reported effort.

BATCH VARIATION: Yes, A batch variation may arise as a result of variable product thickness, different models, types or due to color selection.

COUNTRY OF ORIGIN:

MATERIAL CONTENT NOTES: It consists of 100% Pre-Consumer materials, generated during the manufacturing process. This material, may consist of off-cuts, greenware (unfired ceramic pieces), rejected pieces, crushed fired tiles, polishing sludge, ceramic powder, or excess glaze. Utilizing waste and recovered materials can help to minimize raw material acquisition expenses. In addition, it helps in achieving environmental sustainability goals. This is consistent with reducing environmental impacts.

“This disclosure does not provide information on the potential presence of hazardous substances which may be found in certain mixed recycled materials.”
This disclosure does not provide information on the potential presence of hazardous substances which may be found in certain mixed recycled materials.

BODY COMPONENT 2

%: 5.0000 - 10.0000

PRODUCT THRESHOLD: 100 ppm	RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes	MATERIAL TYPE: Geologically Derived Material
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RESIDUALS AND IMPURITIES NOTES: Residuals and impurities are considered following the HPD Best Practice Guidance, 10.02.17, version 1 “The threshold applied to Residuals and Impurities (R/I) is the same as that applied to intentionally added substances, i.e., 100 ppm or 1000 ppm. Residuals and impurities below the declared Inventory Threshold do not need to be reported on the HPD.” This includes average data declared in the common product database or peer-reviewed scientific articles. For this product, no actual material has been tested. Therefore, residuals and impurities are for informational purposes only and are not a guarantee of presence in the actual building material. Pharos and PubChem (formerly TOXNET) are the main databases for researching potential residuals and impurities. Any R/I above the threshold shall be listed on the HPD; otherwise, if none are listed, then no residuals or impurities are common in that substance above the threshold.

OTHER MATERIAL NOTES:

HAZARD DATA SOURCE: HPDC Special Conditions Policy

%: 100.0000GreenScreen: Not RequiredRC: UNKNANO: NoMATERIAL ROLE: Ceramic body

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
Hazard Screening is not applicable to this Special Condition		

INGREDIENT DESCRIPTION AND COMPOSITION: The sources of clay-forming minerals are aluminouse rocks, particularly those containing feldspar. The ore is regarded as kaolin formers, especially orthoclase, KAISi3O8 and albite NaAlSi3O8. (Ceramic Research Company)

COUNTRY OF ORIGIN: Unknown

RADIOACTIVE ELEMENTS: Unknown

POTENTIAL PRESENCE OF TOXIC METALS: Unknown

MATERIAL CONTENT NOTES: Generally, the most important component of a ceramic tile body is clay. Clay is a term for naturally occurring mineral aggregates consisting mainly of the hydrous silicate of alumina. There is considerable variation in the clay's mineral content and degree of purity. Clay serves various functions such as a binder, a suspension aid and an inexpensive source of alumina and silica. (Ceramic Research Company)-Per the Pharos database.

This disclosure does not provide potential presence of radioactive elements which may be found in certain geological materials.
This disclosure does not provide potential presence of toxic metals which may be found in certain geological materials.

BODY COMPONENT 1%: 7.0000

PRODUCT THRESHOLD: 100 ppm	RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes	MATERIAL TYPE: Geologically Derived Material
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RESIDUALS AND IMPURITIES NOTES: Residuals and impurities are considered following the HPD Best Practice Guidance, 10.02.17, version 1 “The threshold applied to Residuals and Impurities (R/I) is the same as that applied to intentionally added substances, i.e., 100 ppm or 1000 ppm. Residuals and impurities below the declared Inventory Threshold do not need to be reported on the HPD.” This includes average data declared in the common product database or peer-reviewed scientific articles. For this product, no actual material has been tested. Therefore, residuals and impurities are for informational purposes only and are not a guarantee of presence in the actual building material. Pharos and PubChem (formerly TOXNET) are the main databases for researching potential residuals and impurities. Any R/I above the threshold shall be listed on the HPD; otherwise, if none are listed, then no residuals or impurities are common in that substance above the threshold.

OTHER MATERIAL NOTES:

HAZARD DATA SOURCE: Pharos Chemical and Materials LibraryHAZARD SCREENING DATE: 2023-11-22 7:17:57

%: 95.0000 - 99.0000GreenScreen: LT-UNKRC: UNKNANO: NoSUBSTANCE ROLE: Ceramic body

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
CAN	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

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

SUBSTANCE NOTES: Residuals or impurities are quantitatively measured and noted in this HPD when greater than or equal to 100 ppm.

QUARTZ

ID: 14808-60-7

HAZARD DATA SOURCE: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2023-11-22 7:17:57	
%: 0.0000 - 4.0000	GreenScreen: BM-1	RC: None	NANO: No	SUBSTANCE ROLE: Impurity/Residual
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	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	US NIH - Report on Carcinogens	Known to be a human Carcinogen**		
CAN	GHS - Japan	H350 - May cause cancer [Carcinogenicity - Category 1A]**		
CAN	GHS - Australia	H350i - May cause cancer by inhalation [Carcinogenicity - Category 1A or 1B]**		
CAN	GHS - New Zealand	Carcinogenicity category 1**		
MAM	GHS - Japan	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]**		
GEN	GHS - Japan	H341 - Suspected of causing genetic defects [Germ cell mutagenicity - Category 2]**		
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**		
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION		
None found		No listings found on Additional Hazard Lists		

SUBSTANCE NOTES: Kaolin is a naturally occurring mineral, which may contain amounts of crystalline silica typically 0.1-4%. (Edgar MSDS)-Per Pharos Database.

**Form-Specific Hazard: This substance's GreenScreen Benchmark or List Translator score and the applicable hazards are related to particulate inhalation, which is expected to occur only during manufacture, installation, maintenance, or demolition, due to activities such as sawing, sanding, grinding, or intensive cleaning. See HPDC's Special Conditions policy for more information. Manufacturer's Safety Data Sheet (SDS), if applicable, may offer occupational health and safety information.

NATURAL CLAY		%: 5.0000
PRODUCT THRESHOLD: 100 ppm	RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes	MATERIAL TYPE: Geologically Derived Material
RESIDUALS AND IMPURITIES NOTES: Residuals and impurities are considered following the HPD Best Practice Guidance, 10.02.17, version 1 “The threshold applied to Residuals and Impurities (R/I) is the same as that applied to intentionally added substances, i.e., 100 ppm or 1000 ppm. Residuals and impurities below the declared Inventory Threshold do not need to be reported on the HPD.” This includes average data declared in the common product database or peer-reviewed scientific articles. For this product, no actual material has been tested. Therefore, residuals and impurities are for informational purposes only and are not a guarantee of presence in the actual building material. Pharos and PubChem (formerly TOXNET) are the main databases for researching potential residuals and impurities. Any R/I above the threshold shall be listed on the HPD; otherwise, if none are listed, then no residuals or impurities are common in that substance above the threshold.		

OTHER MATERIAL NOTES:

BENTONITE				ID: 1302-78-9
HAZARD DATA SOURCE: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2023-11-22 7:17:57	
%: 95.0000 - 99.0000	GreenScreen: LT-UNK	RC: UNK	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: Residuals or impurities are quantitatively measured and noted in this HPD when greater than or equal to 100 ppm.				

QUARTZ				ID: 14808-60-7
HAZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2023-11-22 7:17:58		
%: 0.0000 - 6.0000	GreenScreen: BM-1	RC: None	NANO: No	SUBSTANCE ROLE: Impurity/Residual

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	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	US NIH - Report on Carcinogens	Known to be a human Carcinogen**
CAN	GHS - Japan	H350 - May cause cancer [Carcinogenicity - Category 1A]**
CAN	GHS - Australia	H350i - May cause cancer by inhalation [Carcinogenicity - Category 1A or 1B]**
CAN	GHS - New Zealand	Carcinogenicity category 1**
MAM	GHS - Japan	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]**
GEN	GHS - Japan	H341 - Suspected of causing genetic defects [Germ cell mutagenicity - Category 2]**
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**
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

SUBSTANCE NOTES: Bentonite can contain up to 6% crystalline silica. (Pharos database).

**Form-Specific Hazard: This substance's GreenScreen Benchmark or List Translator score and the applicable hazards are related to particulate inhalation, which is expected to occur only during manufacture, installation, maintenance, or demolition, due to activities such as sawing, sanding, grinding, or intensive cleaning. See HPDC's Special Conditions policy for more information. Manufacturer's Safety Data Sheet (SDS), if applicable, may offer occupational health and safety information.

SLUDGE	%: 2.0000 - 5.0000	
PRODUCT THRESHOLD: 100 ppm	RESIDUALS AND IMPURITIES EVALUATION COMPLETED: No	MATERIAL TYPE: Other: Waste/By-product

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities are considered following the HPD Best Practice Guidance, 10.02.17, version 1 “The threshold applied to Residuals and Impurities (R/I) is the same as that applied to intentionally added substances, i.e., 100 ppm or 1000 ppm. Residuals and impurities below the declared Inventory Threshold do not need to be reported on the HPD.” This includes average data declared in the common product database or peer-reviewed scientific articles. For this product, no actual material has been tested. Therefore, residuals and impurities are for informational purposes only and are not a guarantee of presence in the actual building material. Pharos and PubChem (formerly TOXNET) are the main databases for researching potential residuals and impurities. Any R/I above the threshold shall be listed on the HPD; otherwise, if none are listed, then no residuals or impurities are common in that substance above the threshold.

OTHER MATERIAL NOTES: This material is 100% Pre-Consumer/ Industrial by-product. A semi-solid slurry obtained after the treatment of effluent in the effluent treatment plant (ETP) is known as ETP sludge. Sludge is produced as a by-product of the treatment of industrial wastewater or during sewage treatment.

ETP SLUDGE

ID: Mixed Recycled Content

HAZARD DATA SOURCE: HPDC Special Conditions Policy

%: 100.0000

GreenScreen: Not Required

RC: PreC

NANO: No

MATERIAL ROLE: Ceramic body

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

Hazard Screening is not applicable to this Special Condition

INGREDIENT DESCRIPTION: Effluent Treatment Plant (ETP) Sludge.

ANALYTICAL TESTING: For this product, no actual material has been tested. The manufacturer has made every effort to report the all contents of this material. This is a voluntary, self-reported effort.

BATCH VARIATION: Yes, A batch variation may arise as a result of variable product thickness, different models, types or due to color selection.

COUNTRY OF ORIGIN:

MATERIAL CONTENT NOTES: ETP Sludge is 100% Pre-Consumer material. Sludge is the semi-solid slurry of waste that settles at the bottom of ETP, and that slurry is brought out of the system for treatment or disposal. That slurry from ETP is known as ETP sludge. Sludge exists in a solid or semi-solid state as a byproduct of wastewater treatment, sewage treatment, and water treatment. Sludge is produced as a by-product of the treatment of industrial wastewater or during sewage treatment.

“This disclosure does not provide information on the potential presence of hazardous substances which may be found in certain mixed recycled materials.”

This disclosure does not provide information on the potential presence of hazardous substances which may be found in certain mixed recycled materials.

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	CDPH Standard Method V1.2 (Section 01350/CHPS) - Classroom & Office scenario	
CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: RAK Ceramics PJSC P.O. Box: 4714, Ras Al Khaimah, United Arab Emirates CERTIFICATE URL: CERTIFICATION AND COMPLIANCE NOTES: Certificate No: 201229-01	ISSUE DATE: 2020-12-30 EXPIRY DATE:	CERTIFIER OR LAB: Berkeley Analytical
VOC EMISSIONS	RFCI FloorScore	
CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: RAK Ceramics PJSC P.O. Box: 4714, Ras Al Khaimah, United Arab Emirates CERTIFICATE URL: CERTIFICATION AND COMPLIANCE NOTES: Registration # SCS-FS-02974	ISSUE DATE: 2023-02-01 EXPIRY DATE:	CERTIFIER OR LAB: Scientific Certification Systems, Inc.
BS EN ISO 10545-15:1997 WITH ICP-OES (LEAD & CADMIUM)	Metal Release Analysis	
CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: RAK Ceramics PJSC P.O. Box: 4714, Ras Al Khaimah, United Arab Emirates CERTIFICATE URL: CERTIFICATION AND COMPLIANCE NOTES: ICP-OES is a fast elemental analysis method capable of testing large sample batches in a short period of time. With ICP-OES, testing numerous metals, such as aluminum, nickel, lead, cadmium, titanium, copper, cobalt, stainless steel, and alloy steels, ICP-OES has the ability to detect elements at trace levels.	ISSUE DATE: 2020-02-19 EXPIRY DATE:	CERTIFIER OR LAB: Lucideon
RADIOACTIVITY	Radioactivity Test	
CERTIFYING PARTY: Self-declared APPLICABLE FACILITIES: RAK Ceramics PJSC P.O. Box: 4714, Ras Al Khaimah, United Arab Emirates CERTIFICATE URL: CERTIFICATION AND COMPLIANCE NOTES: Doc No: QFTLA46.DOC	ISSUE DATE: 2021-08-16 EXPIRY DATE:	CERTIFIER OR LAB: RAK CERAMICS
ANTIMICROBIAL	Antimicrobial	
CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: RAK Ceramics PJSC P.O. Box: 4714, Ras Al Khaimah, United Arab Emirates CERTIFICATE URL: CERTIFICATION AND COMPLIANCE NOTES: Certificate No: METS-R 1535-01/2021	ISSUE DATE: 2021-04-07 EXPIRY DATE:	CERTIFIER OR LAB: Middle East Testing Services L.L.C
REGULATORY SPECIFICATIONS	Regulatory Specifications	
CERTIFYING PARTY: Self-declared APPLICABLE FACILITIES: RAK Ceramics PJSC P.O. Box: 4714, Ras Al Khaimah, United Arab Emirates CERTIFICATE URL: CERTIFICATION AND COMPLIANCE NOTES: Doc No: CL/7259/2023. This declaration includes various characteristics and specifications of tiles including dimensions, water absorption, breaking strength, resistance to surface abrasion, low conc. acids and alkalis, stains, thermal shock etc, under standard test method "BS EN ISO 10545"	ISSUE DATE: 2023-05-15 EXPIRY DATE:	CERTIFIER OR LAB: RAK CERAMICS
DT55 – PRE CONSUMER RECYCLE MATERIALS	Recycled Content	

+ 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.

No accessories are required for this product.

📄 Section 5: General Notes

No accessories were added because this must be installed by professional installers who will use their tools and methods. Exact methods are determined by site-specific conditions, therefore, additional tools and products are unknown. For manufacturer-specific installation instructions, please visit the website: www.rakceramics.com

MANUFACTURER INFORMATION

MANUFACTURER: RAK Ceramics
ADDRESS: RAK Ceramics P.J.S.C. P.O. Box 4714, Sheikh
 Muhammad Bin Salem Rd Al Jazirah Al Hamra, Ras Al-Khaimah
 Ras Al-Khaimah, Ras Al-Khaimah P.O. Box 4714
COUNTRY: United Arab Emirates

WEBSITE: www.rakceramics.com
CONTACT NAME: Ruel Perez
TITLE: VP-QEHS
PHONE: +971 7 246 7000
EMAIL: ruel.perez@rakceramics.com

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

