

NG KÜTAHYA SERAMİK FLOOR TILES

by NG Kütahya Seramik

HPD UNIQUE IDENTIFIER: 29533245440
HPD UNIQUE PRODUCT ID: TR-1982-690722000000
CLASSIFICATION: 09 30 13 Ceramic Tiling
PRODUCT TYPE: Ceramic (Tile)

PRODUCT DESCRIPTION: NG Kütahya Seramik floor tiles are ceramic tiles designed for interior flooring applications. The product is manufactured in Yer-1, Yer-2, and Umut production facilities using natural mineral-based raw materials such as clay, feldspar, and quartz. The production process includes shaping, drying, glazing, and firing at high temperatures (1190–1200°C), resulting in a durable, wear-resistant, and dimensionally stable surface. These tiles are intended for indoor floor coverings, providing mechanical strength, low water absorption, and long-term performance for residential and commercial applications.

Section 1: Summary

Nested Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format → Nested Materials Method	Residuals/Impurities Evaluation Completed in 2 of 2 Materials	<i>For all contents above the threshold, the manufacturer has:</i>
Threshold Disclosed Per → Product	Explanation(s) provided for Residuals/Impurities? Yes	Characterized <i>Provided weight and role.</i> Yes
Threshold Level → 1,000 ppm		Screened <i>Provided screening results using HPDC-approved methods.</i> No
		Identified <i>Provided name and CAS RN or other identifier.</i> 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.

NESTED MATERIAL | MATERIAL OR SUBSTANCE | RESIDUAL OR IMPURITY
GREENSCREEN SCORE | HAZARD TYPE
BODY [FELDSPAR LT-UNK | MAM KAOLIN CLAY (PRIMARY CASRN IS 1332-58-7) LT-UNK | CAN (RECYCLED CERAMIC MATERIAL (UNFIRED SCRAP)) UNK KAOLIN LT-UNK | CAN (RECYCLED CERAMIC MATERIAL (FIRED SCRAP)) Not Screened SODIUM SILICATE LT-P1 | END | SKI | EYE] GLAZE [FRITS, CHEMICALS (UNLEADED) LT-P1 | MUL KAOLIN LT-UNK | CAN KAOLIN CLAY (PRIMARY CASRN IS 1332-58-7) LT-UNK | CAN FELDSPAR LT-UNK | MAM ZIRCONIUM SILICATE BM-2 QUARTZ BM-1 | CAN | MAM | GEN ALUMINUM OXIDE BM-2 | CAN | MAM ZINC OXIDE BM-1 | END | MUL | AQU | MAM | REP WOLLASTONITE LT-UNK DOLOMITE NoGS CALCIUM CARBONATE BM-3 | EYE PENTASODIUM TRIPOLYPHOSPHATE LT-UNK | EYE EDIFAS B LT-UNK | AQU]

Number of Greenscreen BM-4/BM3 contents ... 1
Contents highest-concern GreenScreen score(s) (BM-1, LT-1, LT-P1) ... LT-P1, BM-1
Nanomaterial ... No
INVENTORY AND SCREENING NOTES:

The ceramic tile consists of a body and glaze layer composed primarily of mineral-based raw materials such as feldspar, clay (kaolinite), quartz, carbonates, frit, and various functional additives. The raw materials are blended with water to form a homogeneous slurry. In the body preparation stage, the slurry is spray-dried to obtain granules suitable for pressing. These granules are shaped under high pressure to form the green body. The glaze is prepared separately using frits, mineral additives, and processing aids such as dispersants, binders, and opacifiers to achieve desired surface properties. The glaze is applied onto the green or dried body depending on the production process. The shaped product is then fired at high temperatures (approximately 1190–1200°C), resulting in a dense, vitrified, and mechanically stable ceramic structure. During firing, organic additives are burned off and mineral components are transformed into a stable, inert matrix. All substances have been evaluated based on available composition data and Safety Data Sheets (SDS), and no substances are present above the reporting threshold. Any potential impurities are considered at trace levels and are not intentionally added.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

COMPLIANCE *See Section 3 for additional listings.*
VOC emissions: UL/GreenGuard Gold Certified
VOC emissions: UL/GreenGuard Certified
Management: ISO 9001:2015 Quality management systems
Management: ISO 45001:2018 Occupational health and safety management systems

CONSISTENCY WITH OTHER PROGRAMS

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 3.0, available on the HPDC website at: www.hpd-collaborative.org/hpd-3-0-standard

BODY		%: 90.0000 - 95.0000	
PRODUCT THRESHOLD: 1000 ppm		RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes	MATERIAL TYPE: Ceramic
RESIDUALS AND IMPURITIES NOTES: No residuals or impurities are expected to be present above the reporting threshold in the final fired ceramic body. According to internal assessments by the R&D department, the high-temperature firing process (1190–1200°C) results in a stable, inert matrix where potential trace elements, if present, remain below the reporting threshold. Any residual substances are considered negligible and are not intentionally added.			
OTHER MATERIAL NOTES: The ceramic body is composed of mineral-based raw materials including feldspar, clay (kaolinite), quartz, carbonates, and recycled industrial inputs. During the firing process, these materials undergo high-temperature transformation, forming a dense and stable ceramic structure. The final product is considered inert and non-hazardous in its solid form. All substances in this material are below the reportable threshold.			

FELDSPAR			ID: 68476-25-5	
HAZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2026-04-09 0:56:47		
%: 35.0000 - 45.0000	GreenScreen: LT-UNK	RC: None	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: Functions as a flux in the ceramic body by lowering the melting temperature and promoting vitrification during firing. It facilitates the formation of a glassy phase, enhances densification, and improves mechanical strength and chemical durability of the final product.				

KAOLIN CLAY (PRIMARY CASRN IS 1332-58-7)				ID: 12198-85-5
HAZARD DATA SOURCE: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2026-04-09 0:56:47	
%: 10.0000 - 30.0000	GreenScreen: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Structure component
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: Acts as a structural component in the ceramic body, providing plasticity during shaping and forming a stable skeletal framework upon firing, contributing to dimensional stability and mechanical integrity.

(RECYCLED CERAMIC MATERIAL (UNFIRED SCRAP))

ID: Not Registered

HAZARD DATA SOURCE: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: Not Screened	
%: 25.0000 - 30.0000	GreenScreen: UNK	RC: PreC	NANO: No	SUBSTANCE ROLE: Filler
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
	Hazard Screening not performed			
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
	Additional Hazard Screening not performed			

SUBSTANCE NOTES: Recycled unfired ceramic material (production scrap) reused in the body composition, contributing as a filler and supporting resource efficiency.

KAOLIN

ID: 1332-58-7

HAZARD DATA SOURCE: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2026-04-09 0:56:48	
%: 10.0000 - 15.0000	GreenScreen: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Processing regulator
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: Kaolin (hydrated aluminum silicate) functions as a processing regulator in the ceramic body, supporting suspension stability and preventing particle sedimentation during slurry preparation. It helps maintain homogeneous distribution of particles and ensures consistent rheological behavior during processing.

(RECYCLED CERAMIC MATERIAL (FIRED SCRAP))

ID: Not Registered

HAZARD DATA SOURCE: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: Not Screened	
%: 4.0000 - 8.0000	GreenScreen: Not Screened	RC: None	NANO: No	SUBSTANCE ROLE: Filler
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
	Hazard Screening not performed			

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
Additional Hazard Screening not performed		
SUBSTANCE NOTES: Recycled fired ceramic material reused in the body composition , contributing as an inert filler and supporting resource efficiency.		

SODIUM SILICATE

ID: 1344-09-8

HAZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2026-04-09 0:56:48		
%: 0.6000 - 0.8000	GreenScreen: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Dispersant
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 Precautionary List		
		Antimicrobials		

SUBSTANCE NOTES: Acts as a dispersant in the ceramic body, improving particle dispersion, enhancing flow properties, and preventing agglomeration during processing.

GLAZE %: 5.0000 - 10.0000

PRODUCT THRESHOLD: 1000 ppm	RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes	MATERIAL TYPE: Ceramic
RESIDUALS AND IMPURITIES NOTES: No residuals or impurities are expected to be present above the reporting threshold in the final glaze layer. Based on information provided by the R&D department, the firing process ensures chemical stabilization of all constituents, forming a vitrified and inert surface. Any trace elements potentially originating from raw materials are present at levels below the reporting threshold and are not intentionally added.		
OTHER MATERIAL NOTES: The glaze layer consists of frits, mineral additives, and functional agents such as dispersants, binders, and opacifiers. During firing at high temperatures, the glaze forms a continuous glassy phase that is chemically stable and inert. The final glaze surface does not release hazardous substances under normal conditions of use, and all substances are present below the reportable threshold.		

FRITS, CHEMICALS (UNLEADED)

ID: 65997-18-4

HAZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2026-04-09 0:56:49		
%: 40.0000 - 50.0000	GreenScreen: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Flux
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
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPH)	C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025
		Electronics (RoHS)
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPH)	C2C Certified v5.0 Product Standard Restricted Substances - Effective March 16, 2026
		Cosmetics & Personal Care Products
SUBSTANCE NOTES: Functions as a glass component in the glaze, promoting vitrification, lowering the melting temperature, and contributing to the formation of a stable glassy phase, which enhances surface properties such as chemical resistance and durability.		

KAOLIN

ID: 1332-58-7

HAZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2026-04-09 0:56:49		
%: 10.0000 - 20.0000	GreenScreen: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Filler
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: Acts as a filler in the glaze, supporting rheological behavior, maintaining suspension stability, and improving adhesion during application and firing.				

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

ID: 12198-85-5

HAZARD DATA SOURCE: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2026-04-09 0:56:50	
%: 8.0000 - 12.0000	GreenScreen: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Processing regulator
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: Kaolinite (clay) functions as a processing regulator in the glaze formulation, improving slurry stability, controlling rheological properties, and preventing particle sedimentation. It ensures homogeneous distribution and consistent application during processing.				

HAZARD DATA SOURCE: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2026-04-09 0:56:50	
%: 8.0000 - 12.0000	GreenScreen: LT-UNK	RC: None	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: Functions as a flux in the glaze, lowering the melting temperature and promoting vitrification. It contributes to the formation of a glassy phase and improves surface properties such as smoothness, durability, and chemical resistance.				

ZIRCONIUM SILICATE

ID: 10101-52-7

HAZARD DATA SOURCE: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2026-04-09 0:56:48	
%: 4.0000 - 8.0000	GreenScreen: BM-2	RC: None	NANO: No	SUBSTANCE ROLE: Opacifier
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: Acts as an opacifier in the glaze, scattering light to provide opacity and contributing to surface uniformity and visual appearance.				

QUARTZ

ID: 14808-60-7

HAZARD DATA SOURCE: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2026-04-09 0:56:49	
%: 4.0000 - 8.0000	GreenScreen: BM-1	RC: None	NANO: No	SUBSTANCE ROLE: Glass component

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: unctions as a glass component in the glaze, contributing to the formation of the glassy phase and enhancing chemical resistance and surface durability.

ALUMINUM OXIDE		ID: 1344-28-1	
HAZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2026-04-09 0:56:49	
%: 3.0000 - 7.0000	GreenScreen: BM-2	RC: None	NANO: No
		SUBSTANCE ROLE: Filler	

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
CAN	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man
MAM	GHS - Japan	H335 - May cause respiratory irritation [Specific target organ toxicity - Single exposure - Category 3]
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 v4.1 Product Standard Restricted Substances - Effective July 1, 2025 Children's Toy Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v5.0 Product Standard Restricted Substances - Effective March 16, 2026 Children's Toy Products

SUBSTANCE NOTES: Acts as a filler in the glaze, improving hardness, wear resistance, and chemical durability of the fired surface.

ZINC OXIDE

ID: **1314-13-2**

HAZARD DATA SOURCE: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2026-04-09 0:56:50	
%,: 2.0000 - 4.0000	GreenScreen: BM-1	RC: None	NANO: No	SUBSTANCE ROLE: Flux

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]

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Green Science Policy Institute (GSPI)	GSPI - Six Classes Precautionary List Antimicrobials
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025 Children's Toy Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v5.0 Product Standard Restricted Substances - Effective March 16, 2026 Children's Toy Products

SUBSTANCE NOTES: Functions as a flux in the glaze, lowering the melting temperature and contributing to the formation of a stable glassy phase. It also enhances surface properties such as gloss and chemical durability.

WOLLASTONITE		ID: 13983-17-0	
HAZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2026-04-09 0:56:50	
%: 2.0000 - 4.0000	GreenScreen: LT-UNK	RC: None	NANO: No SUBSTANCE ROLE: Matting agent

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: Wollastonite (calcium silicate) is used in glaze formulations as a matting agent to control surface finish by influencing crystallization and melt viscosity during firing. It contributes to the development of matte or semi-matte surfaces and enhances mechanical strength and thermal stability of the glaze.		

DOLOMITE

ID: 16389-88-1

HAZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2026-04-09 0:56:48		
%: 1.0000 - 3.0000	GreenScreen: NoGS	RC: None	NANO: No	SUBSTANCE ROLE: Matting agent
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: Functions as a filler in the glaze, contributing to melt behavior and influencing surface properties such as opacity and appearance.				

CALCIUM CARBONATE

ID: 471-34-1

HAZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2026-04-09 0:56:49		
%: 1.0000 - 3.0000	GreenScreen: BM-3	RC: None	NANO: No	SUBSTANCE ROLE: Filler
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
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: Functions as a filler in the glaze, contributing to melt behavior and influencing surface properties such as opacity and appearance.				

PENTASODIUM TRIPOLYPHOSPHATE

ID: 7758-29-4

HAZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2026-04-09 0:56:49		
%: 0.2500 - 0.5000	GreenScreen: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Dispersant

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
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: Functions as a dispersant in the glaze, improving particle dispersion, enhancing flow properties, and preventing agglomeration during processing.		

EDIFAS B			ID: 9004-32-4	
HAZARD DATA SOURCE: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2026-06-09 6:00:20	
%: 0.1500 - 0.3450	GreenScreen: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Binder
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
AQU	GHS - New Zealand		Hazardous to the aquatic environment - chronic category 3	
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
POSITIVE LIST	US Environmental Protection Agency (US EPA)	US EPA - DfE Safer Chemicals Ingredients list (SCIL)		
		Chelating Agents - Green Circle (Verified Low Concern)		
SUBSTANCE NOTES:				

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	
COMPLIANCE TYPE: Third-party certification CERTIFIER/VERIFIER/TESTING LAB/AUDITOR: UL Solutions – GREENGUARD Gold Certification - Certificate No: 413592-420 COMPLIANCE DETAILS: COMPLIANCE SCOPE: Product APPLICABLE FACILITIES: Production site(s) covered by the UL Test Report COMPLIANCE URL: https://ngkutahyaseramik.com.tr/uploads/2025/10/22/floor-tile-greenguard-gold-certification.pdf COMPLIANCE NOTES: Floor Tile products are GREENGUARD Gold Certified in accordance with UL 2818:2022 – Gold Standard for Chemical Emissions for Building Materials, Finishes and Furnishings. Product testing was conducted in accordance with the UL 2821 test method to demonstrate compliance with emission limits under UL 2818, Sections 7.1 and 7.2. Compliance was assessed in accordance with California Department of Public Health (CDPH) Standard Method v1.2-2017 using classroom and office environment models, with air change rates of 0.82 h⁻¹ and 0.68 h⁻¹, and loading factors of 94.60 m² and 33.40 m², respectively. The product meets GREENGUARD Gold emission criteria, including limits for TVOC, formaldehyde, total aldehydes, and individual VOCs.	ISSUE DATE: 2025-10-21	EXPIRY DATE: 2026-10-21
VOC EMISSIONS	UL/GreenGuard Certified	
COMPLIANCE TYPE: Third-party certification CERTIFIER/VERIFIER/TESTING LAB/AUDITOR: UL Solutions – GREENGUARD Certification - Certificate No: 413592-410 COMPLIANCE DETAILS: COMPLIANCE SCOPE: Product APPLICABLE FACILITIES: Production sites covered under the UL certification. COMPLIANCE URL: https://ngkutahyaseramik.com.tr/uploads/2025/10/22/floor-tile-greenguard-certification.pdf COMPLIANCE NOTES: Floor Tile products are GREENGUARD Certified in accordance with UL 2818:2022 – Standard for Chemical Emissions for Building Materials, Finishes and Furnishings. Products were tested in accordance with the UL 2821 test method and determined compliant with emission limits specified in UL 2818. The products comply with GREENGUARD emission criteria, including limits for Total Volatile Organic Compounds (TVOC ≤ 0.50 mg/m³), formaldehyde, total aldehydes, and individual VOCs as defined by UL 2818 and CDPH Standard Method v1.2.	ISSUE DATE: 2025-10-21	EXPIRY DATE: 2026-10-21
MANAGEMENT	ISO 9001:2015 Quality management systems	

COMPLIANCE TYPE: Third-party certification

CERTIFIER/VERIFIER/TESTING LAB/AUDITOR: TSE

(Turkish Standards Institution), IQNet recognized

COMPLIANCE DETAILS:

COMPLIANCE SCOPE: Company-wide

APPLICABLE FACILITIES: All manufacturing facilities

listed in the certificate (Kütahya plants: Umut, Fayans,

Granit, Yer 1, Yer 2)

COMPLIANCE URL:

https://ngkutahyaseramik.com.tr/uploads/2025/09/26/kalite-

yonetim-sistemi-belgesi-2025-iqnet.pdf

COMPLIANCE NOTES: The organization is certified to ISO

9001:2015 Quality Management System by TSE, with

international recognition through IQNet. The certification

applies to all relevant manufacturing facilities and confirms

the implementation and maintenance of a consistent and

effective quality management system across the

organization.

ISSUE DATE: 2025-09-11

EXPIRY DATE: 2027-06-06

MANAGEMENT

ISO 45001:2018 Occupational health and safety management systems

COMPLIANCE TYPE: Third-party certification

CERTIFIER/VERIFIER/TESTING LAB/AUDITOR: TSE

(Turkish Standards Institution), IQNet recognized

COMPLIANCE DETAILS:

COMPLIANCE SCOPE: Company-wide

APPLICABLE FACILITIES: All manufacturing facilities

covered under the certificate (Umut, Fayans, Granit, Yer 1

and Yer 2 plants, Kütahya, Türkiye)

COMPLIANCE URL:

https://ngkutahyaseramik.com.tr/uploads/2025/10/30/isg-

yonetim-sistemi-belgesi-2025-iqnet.pdf

COMPLIANCE NOTES: The organization is certified to ISO

45001:2018 Occupational Health and Safety Management

System by TSE, with international recognition through

IQNet. The certification applies to all relevant manufacturing

facilities and confirms the implementation and maintenance

of a structured system to manage occupational health and

safety risks and improve workplace safety performance

across the organization.

ISSUE DATE: 2024-09-24

EXPIRY DATE: 2027-06-21

MANAGEMENT

ISO 14001:2015 - Environmental management systems

COMPLIANCE TYPE: Third-party certification

CERTIFIER/VERIFIER/TESTING LAB/AUDITOR: TSE

(Turkish Standards Institution), IQNet recognized

COMPLIANCE DETAILS:

COMPLIANCE SCOPE: Product Line

APPLICABLE FACILITIES: All manufacturing facilities

covered under the certificate (Umut, Fayans, Granit, Yer 1

and Yer 2 plants, Kütahya, Türkiye)

COMPLIANCE URL:

https://ngkutahyaseramik.com.tr/uploads/2025/10/30/cevre-

yonetim-sistemi-belgesi-2025-iqnet.pdf

COMPLIANCE NOTES: The organization is certified to ISO

14001:2015 Environmental Management System by TSE,

with international recognition through IQNet. The

certification applies to all relevant manufacturing facilities

and confirms the implementation and maintenance of a

systematic approach to managing environmental impacts,

ensuring regulatory compliance, and promoting continuous

environmental performance improvement across the

organization.

ISSUE DATE: 2025-09-17

EXPIRY DATE: 2027-06-22

COMPLIANCE TYPE: Third-party certification	ISSUE DATE: 2023-02-10	EXPIRY DATE: 2028-02-09
CERTIFIER/VERIFIER/TESTING LAB/AUDITOR: International EPD System (EPD International AB)		
COMPLIANCE DETAILS:		
COMPLIANCE SCOPE: Product		
APPLICABLE FACILITIES: NG Kütahya Seramik manufacturing facilities included within the EPD system boundary.		
COMPLIANCE URL: https://ngkutahyaseramik.com.tr/uploads/2025/12/09/ng-kutahya-seramik-floor-tile-en-epdturkey-1.webp		
COMPLIANCE NOTES: The Environmental Product Declaration (EPD) for Floor Tile manufactured by NG Kütahya Seramik has been developed in accordance with ISO 14025 and EN 15804 standards and registered under The International EPD® System. The declaration is based on a life cycle assessment (LCA) covering relevant product life cycle stages and has been independently third-party verified.		

+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.

ESection 5: General Notes

NG Kütahya Floor Tiles are ceramic floor covering products manufactured from natural mineral raw materials including clays, kaolin, feldspars, quartz, and other inorganic constituents. The products are produced through shaping, drying, glazing, decoration, and high-temperature firing processes to achieve the desired aesthetic and performance characteristics. The finished tiles may consist of a ceramic body, engobe layer, decorative elements, and glaze layer depending on the product design. During firing, these materials form a stable ceramic structure and durable surface suitable for long-term interior floor applications. Internal pre-consumer recycled ceramic materials may be incorporated into the manufacturing process as part of standard production practices. The use of recycled materials does not alter the composition, quality, performance, or safety characteristics of the finished product. Under normal conditions of use, the finished wall tiles are non-hazardous, chemically stable, and inert. The products are designed to provide long-term durability, ease of maintenance, and aesthetic performance in residential, commercial, and institutional environments.

MANUFACTURER INFORMATION

MANUFACTURER: **NG Kütahya Seramik**
ADDRESS: **Çalca Mahallesi Ahmet Özten (Os) Sok. No:1/21, No: 1/28, No 2/25 and Çalca OSB Mah.4.Cad. No:5 Merkez Kütahya, Kütahya 43000 COUNTRY: Turkey**

WEBSITE: **https://ngkutahyaseramik.com.tr/en**
CONTACT NAME: **Büşra Adıgüzel**
TITLE: **Quality Management Systems Manager**
PHONE: **+90 274 225 12 00**
EMAIL: **busraadiguzel@ngkutahyaseramik.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-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 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.

