

**CLASSIFICATION:** Mosa C2C porcelain floor tiles

**PRODUCT DESCRIPTION:** Unglazed, dry-pressed, single-fired, fully vitrified porcelain tiles, produced with the Ultragres process. This makes them extremely strong, colourfast, scratch resistant, and water, weather and frost proof. Suitable for indoor and outdoor applications. Sizes ranging from 6"x 6" to 24"x 48", with various surface designs and structures. Manufactured by Royal Mosa, Maastricht, The Netherlands, since 1883.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format

- Nested Materials Method
- Basic Method

Threshold Disclosed Per

- Material
- Product

Threshold level

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

Residuals/Impurities

- Considered
- Partially Considered
- Not Considered

Explanation(s) provided for Residuals/Impurities?  
 Yes  No

All Substances Above the Threshold Indicated Are:

**Characterized**  Yes Ex/SC  Yes  No  
% weight and role provided for all substances.

**Screened**  Yes Ex/SC  Yes  No  
All substances screened using Priority Hazard Lists with results disclosed.

**Identified**  Yes Ex/SC  Yes  No  
All substances disclosed by Name (Specific or Generic) and Identifier.

CONTENT IN DESCENDING ORDER OF QUANTITY

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

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

**MOSA C2C PORCELAIN FLOOR TILES | NATURALLY OCCURRING SUBSTANCES** NoGS FELDSPAR LT-UNK | RES NEPHELINE SYENITE LT-UNK QUARTZ LT-1 | CAN KAOLIN, CALCINED LT-UNK ZIRCON (ZR(SIO4)) LT-UNK CHROMIUM IRON OXIDE LT-P1 | SKI C.I. PIGMENT RED 231 LT-UNK REACTION MASS OF FUMES, SILICA AND DIIRON TRIOXIDE NoGS C.I. PIGMENT BLUE 28 LT-1 | RES | CAN | GEN ]

Number of Greenscreen BM-4/BM3 contents ... 0  
Contents highest concern GreenScreen Benchmark or List translator Score ... LT-1  
Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

This Health Product Declaration applies to the entire Mosa unglazed floor tile collection: Mosa Global Collection/Mosa Globalgrip, Mosa Custom design tiles C2C, Mosa Mu, Mosa Quartz, Mosa Scenes, Mosa Softgrip/Softline, Mosa Solids, Mosa Terra Beige & Brown, Mosa Terra Greys, Mosa Terra Maastricht, Mosa Terra Tones.

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  
Multi-attribute: Cradle to Cradle Certified - Silver (V3.1)  
Multi-attribute: ILFI Declare - Red List Free  
Management: ISO 14001:2004 Environmental management systems

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified?

- Yes
- No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2019-10-16

PUBLISHED DATE: 2019-10-16

EXPIRY DATE: 2022-10-16



# 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 2.1.1, available on the HPDC website at: [www.hpd-collaborative.org/hpd-2-1-1-standard](http://www.hpd-collaborative.org/hpd-2-1-1-standard)

## MOSA C2C PORCELAIN FLOOR TILES

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: All ingredients have been assessed and verified within the Cradle to Cradle concept. Mosa floor tiles are awarded with a Gold score for Material Health.

OTHER PRODUCT NOTES: Mosa floor tiles contain 21% pre-consumer recycled content, with the exception of the Softgrip/Globalgrip collections, which contain 45% pre-consumer recycled content.

### NATURALLY OCCURRING SUBSTANCES

ID: 999999-99-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-10-16

#: 70.00 - 70.00

GS: NoGS

RC: None

NANO: No

ROLE: Base material

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: naturally occurring clays, including pre-consumer recycled content

### FELDSPAR

ID: 68476-25-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-10-16

#: 22.00 - 22.00

GS: LT-UNK

RC: None

NANO: No

ROLE: Base material

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

RESPIRATORY

AOEC - Asthmagens

Asthmagens (Rs) - sensitizer-induced

SUBSTANCE NOTES: feldspar is a type of mineral that acts as a flux in the tile

### NEPHELINE SYENITE

ID: 37244-96-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-10-16

#: 5.00 - 5.00

GS: LT-UNK

RC: None

NANO: No

ROLE: top layer

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: nepheline is a feldspar-related mineral

## QUARTZ

ID: 14808-60-7

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-10-16**

#: **1.00 - 1.00**

GS: **LT-1**

RC: **None**

NANO: **No**

ROLE: **Top layer**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	IARC	Group 1 - Agent is Carcinogenic to humans
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CANCER	IARC	Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources
CANCER	US NIH - Report on Carcinogens	Known to be Human Carcinogen (respirable size - occupational setting)
CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man
CANCER	GHS - New Zealand	6.7A - Known or presumed human carcinogens
CANCER	GHS - Japan	Carcinogenicity - Category 1A [H350]
CANCER	GHS - Australia	H350i - May cause cancer by inhalation

SUBSTANCE NOTES: sand consists of quartz, influencing the plasticity of the tile

## KAOLIN, CALCINED

ID: 92704-41-1

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-10-16**

#: **1.00 - 1.00**

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **Top layer**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: kaolin is a very white mineral clay

## ZIRCON (ZR(SIO4))

ID: 14940-68-2

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-10-16**

#: **0.60 - 0.60**

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **Top layer**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists
SUBSTANCE NOTES: material for top layer		

### CHROMIUM IRON OXIDE

ID: 12737-27-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-10-16		
%: 0.20 - 0.20	GS: LT-P1	RC: None	NANO: No	ROLE: Top layer
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization		
SUBSTANCE NOTES: material for top layer				

### C.I. PIGMENT RED 231

ID: 68186-99-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-10-16		
%: 0.10 - 0.10	GS: LT-UNK	RC: None	NANO: No	ROLE: Top layer
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES: material for top layer				

### REACTION MASS OF FUMES, SILICA AND DIIRON TRIOXIDE

ID: 1353091-50-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-10-16		
%: 0.08 - 0.08	GS: NoGS	RC: None	NANO: No	ROLE: Top layer
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES: material for top layer				

### C.I. PIGMENT BLUE 28

ID: 1345-16-0

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-10-16		
%: 0.02 - 0.02	GS: LT-1	RC: None	NANO: No	ROLE: Top layer

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESPIRATORY	AOEC - Asthmagens	Asthmagen (G) - generally accepted
CANCER	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man
RESPIRATORY	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization
GENE MUTATION	MAK	Germ Cell Mutagen 3a

SUBSTANCE NOTES: material for top layer

## Section 3: Certifications and Compliance

*This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.*

### VOC EMISSIONS

#### CDPH Standard Method V1.2 (Section 01350/CHPS) - Classroom & Office scenario

CERTIFYING PARTY: **Self-declared**      ISSUE DATE: **2017-07-17**      EXPIRY DATE:      CERTIFIER OR LAB: **TCNA**  
APPLICABLE FACILITIES: **Royal Mosa, Maastricht, The Netherlands**  
CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: Ceramic wall and floor tiles qualify for LEED V4 credit IEQ 4.3 without any requirements because they are considered 'inherently nonemitting sources'. Text from LEED credit: "Products that are inherently nonemitting sources of VOCs (stone, ceramic, powder-coated metals, plated or anodized metal, glass, concrete, clay brick, and unfinished or untreated solidwood flooring) are considered fully compliant without any VOC emissions testing if they do not include integral organic-based surface coatings, binders, or sealants". More information on the contribution of our tiles to a LEED building label can be found on the Mosa website: [www.mosa.com](http://www.mosa.com) > Mosa > Sustainability

### MULTI-ATTRIBUTE

#### Cradle to Cradle Certified - Silver (V3.1)

CERTIFYING PARTY: **Third Party**      ISSUE DATE: **2019-10-02**      EXPIRY DATE: **2021-10-01**      CERTIFIER OR LAB: **EPEA GmbH, part of Drees and Sommer**  
APPLICABLE FACILITIES: **Royal Mosa, Maastricht, The Netherlands**  
CERTIFICATE URL: [https://www.c2ccertified.org/products/scorecard/floor\\_tiles](https://www.c2ccertified.org/products/scorecard/floor_tiles)

CERTIFICATION AND COMPLIANCE NOTES: Mosa floor tiles are C2C certified since 2009

### MULTI-ATTRIBUTE

#### ILFI Declare - Red List Free

CERTIFYING PARTY: **Third Party**      ISSUE DATE: **2019-09-18**      EXPIRY DATE: **2020-10-01**      CERTIFIER OR LAB: **none**  
APPLICABLE FACILITIES: **Royal Mosa, Maastricht, The Netherlands**  
CERTIFICATE URL: <https://living-future.org/declare-products/mosa-c2c-porcelain-floor-tiles/>

CERTIFICATION AND COMPLIANCE NOTES:

### MANAGEMENT

#### ISO 14001:2004 Environmental management systems

CERTIFYING PARTY: **Third Party**      ISSUE DATE: **2017-01-13**      EXPIRY DATE: **2020-01-13**      CERTIFIER OR LAB: **SKG-IKOB**  
APPLICABLE FACILITIES: **Royal Mosa, Maastricht, The Netherlands**  
CERTIFICATE URL: <https://www.mosa.com/application/files/8715/5206/8857/Mosa-ISO-14001-certificaat.pdf>

CERTIFICATION AND COMPLIANCE NOTES:

### MANAGEMENT

#### ISO 9001:2015 Quality management systems

CERTIFYING PARTY: **Third Party**

ISSUE DATE:  
**2017-01-13**

EXPIRY DATE:  
**2020-01-13**

CERTIFIER OR LAB: **SKG-  
IKOB**

APPLICABLE FACILITIES: **Royal Mosa, Maastricht, The Netherlands**

CERTIFICATE URL:

<https://www.mosa.com/application/files/8415/5206/8855/Mosa-ISO-9001-certificaat.pdf>

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.*

No accessories are required for this product.

## Section 5: General Notes

Mosa floor tiles contain 21% pre-consumer recycled content, except for Mosa Softgrip and Global Grip collections: 45% pre-consumer recycled content.



## MANUFACTURER INFORMATION

MANUFACTURER: **mosa**  
 ADDRESS: **Royal Mosa**  
**Meerssenerweg 358**  
**Maastricht Limburg 6224 AL, The Netherlands**  
 WEBSITE: **www.mosa.com**

CONTACT NAME: **Dorien van der Weele**  
 TITLE: **Manager Sustainability**  
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## KEY

**OSHA MSDS** Occupational Safety and Health Administration Material Safety Data Sheet  
**GHS SDS** Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

### Hazard Types

<b>AQU</b> Aquatic toxicity	<b>GLO</b> Global warming	<b>PHY</b> Physical Hazard (reactive)
<b>CAN</b> Cancer	<b>MAM</b> Mammalian/systemic/organ toxicity	<b>REP</b> Reproductive toxicity
<b>DEV</b> Developmental toxicity	<b>MUL</b> Multiple hazards	<b>RES</b> Respiratory sensitization
<b>END</b> Endocrine activity	<b>NEU</b> Neurotoxicity	<b>SKI</b> Skin sensitization/irritation/corrosivity
<b>EYE</b> Eye irritation/corrosivity	<b>OZO</b> Ozone depletion	<b>LAN</b> Land Toxicity
<b>GEN</b> Gene mutation	<b>PBT</b> Persistent Bioaccumulative Toxic	<b>NF</b> Not found on Priority Hazard Lists

### GreenScreen (GS)

<b>BM-4</b> Benchmark 4 (prefer-safer chemical)	<b>LT-P1</b> List Translator Possible Benchmark 1
<b>BM-3</b> Benchmark 3 (use but still opportunity for improvement)	<b>LT-1</b> List Translator Likely Benchmark 1
<b>BM-2</b> Benchmark 2 (use but search for safer substitutes)	<b>LT-UNK</b> List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)
<b>BM-1</b> Benchmark 1 (avoid - chemical of high concern)	<b>NoGS</b> Unknown (no data on List Translator Lists)
<b>BM-U</b> Benchmark Unspecified (insufficient data to benchmark)	

### Recycled Types

**PreC** Preconsumer (Post-Industrial)  
**PostC** Postconsumer  
**Both** Both Preconsumer and Postconsumer  
**Unk** Inclusion of recycled content is unknown  
**None** Does not include recycled content

### Other Terms

#### 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.*