

CLASSIFICATION: Mosa C2C ceramic wall tiles

PRODUCT DESCRIPTION: Dry-pressed and glazed white body ceramic tiles, produced with a double-firing process. Colourfast, scratch resistant, and suitable for indoor applications. Sizes ranging from 6"x 6" to 12"x 24", in carefully composed colors, textures and matt or glossy finishes. 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 CERAMIC WALL TILES | QUARTZ LT-1 | CAN FELDSPAR LT-UNK | RES CALCIUM CARBONATE BM-3 KAOLIN CLAY LT-UNK | CAN FRITS, CHEMICALS (UNLEADED) LT-P1 | MUL SILICA, CHRISTOBALITE LT-1 | CAN C.I. PIGMENT YELLOW 159 LT-UNK C.I. PIGMENT BLACK 30 LT-1 | RES | CAN C.I. PIGMENT BLUE 71 (PRIMARY CASRN IS 68186-95-8) LT-UNK C.I. PIGMENT RED 232 LT-UNK]

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

Contents highest concern GreenScreen Benchmark or List translator Score ... LT-1
Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

This Health Product Declaration applies to all Cradle to Cradle certified Mosa wall tile collections: Mosa 15thirty Greys, Mosa 15thirty Accent, Mosa Casa, Mosa Classics Cerawall, Mosa Classics Foxtrot, Mosa Classics Trocadero, Mosa Colors, Mosa Galactica, Mosa Global Collection, Mosa Globalgrip, Mosa Holland Plus / Mosa Holland 2040, Mosa Ledo, Mosa Matt Collection, Mosa Mix & Mosaics, Mosa More than white, Mosa Murals Blend/Change/Lines/Fuse, Mosa Residential, Mosa Scenes, Mosa Vesta, Mosa Villa.

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: 2019-10-21

PUBLISHED DATE: 2019-10-21

EXPIRY DATE: 2022-10-21



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

MOSA C2C CERAMIC WALL 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 wall tiles are awarded with a Gold score for Material Health.

OTHER PRODUCT NOTES: Mosa wall tiles contain 22% pre-consumer recycled content.

QUARTZ

ID: 14808-60-7

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-10-21

#: 62.00 - 62.00

GS: LT-1

RC: None

NANO: No

ROLE: Base material

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

FELDSPAR

ID: 68476-25-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-10-21

#: 10.00 - 10.00

GS: LT-UNK

RC: None

NANO: No

ROLE: Base material

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced

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

CALCIUM CARBONATE

ID: 471-34-1

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

HAZARD SCREENING DATE: **2019-10-21**

#: **10.00 - 10.00** GS: **BM-3** 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: Chalk is a material that influences the reactivity during firing.

KAOLIN CLAY

ID: 1332-58-7

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

HAZARD SCREENING DATE: **2019-10-21**

#: **7.00 - 7.00** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Base material and top layer**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: Kaolin is a very white mineral clay that helps to determine dimensional stability and breaking strength

FRITS, CHEMICALS (UNLEADED)

ID: 65997-18-4

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

HAZARD SCREENING DATE: **2019-10-21**

#: **7.00 - 7.00** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Top layer**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters

SUBSTANCE NOTES: This material acts as the melted composition part of the tile glaze.

SILICA, CHRISTOBALITE

ID: 14464-46-1

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

HAZARD SCREENING DATE: **2019-10-21**

#: **4.00 - 4.00** GS: **LT-1** RC: **PreC** NANO: **No** ROLE: **Base material**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
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: Material that influences tile plasticity

C.I. PIGMENT YELLOW 159

ID: 68187-15-5

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

HAZARD SCREENING DATE: **2019-10-21**

#: **0.07 - 0.07**

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 that determines the color of the tile, giving the tile its final "look & feel".

C.I. PIGMENT BLACK 30

ID: 71631-15-7

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

HAZARD SCREENING DATE: **2019-10-21**

#: **0.07 - 0.07**

GS: **LT-1**

RC: **None**

NANO: **No**

ROLE: **Top layer**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
CANCER	IARC	Group 1 - Agent is Carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
CANCER	US NIH - Report on Carcinogens	Known to be a human Carcinogen

SUBSTANCE NOTES: Material that determines the color of the tile, giving the tile its final "look & feel".

C.I. PIGMENT BLUE 71 (PRIMARY CASRN IS 68186-95-8)

ID: 75367-22-5

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

HAZARD SCREENING DATE: **2019-10-21**

#: **0.07 - 0.07**

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 that determines the color of the tile, giving the tile its final "look & feel".**

C.I. PIGMENT RED 232

ID: **68412-79-3**

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

HAZARD SCREENING DATE: **2019-10-21**

#: **0.07 - 0.07**

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 that determines the color of the tile, giving the tile its final "look & feel".**

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 > Mosa > Sustainability

MULTI-ATTRIBUTE

Cradle to Cradle Certified - Silver (V3.1)

CERTIFYING PARTY: **Third Party**
ISSUE DATE: **2019-07-30**
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/wall_tiles

CERTIFICATION AND COMPLIANCE NOTES: Mosa wall 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-ceramic-wall-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 Cradle to Cradle ceramic wall tiles contain 22% pre-consumer recycled content.



MANUFACTURER INFORMATION

MANUFACTURER: **mosa**

ADDRESS: **Royal Mosa**

Meerssenerweg 358

Maastricht Limburg 6224 AL, The Netherlands

WEBSITE: **www.mosa.com**

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KEY

OSHA MSDS Occupational Safety and Health Administration Material Safety Data Sheet

GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

Hazard Types

AQU Aquatic toxicity

CAN Cancer

DEV Developmental toxicity

END Endocrine activity

EYE Eye irritation/corrosivity

GEN Gene mutation

GLO Global warming

MAM Mammalian/systemic/organ toxicity

MUL Multiple hazards

NEU Neurotoxicity

OZO Ozone depletion

PBT Persistent Bioaccumulative Toxic

PHY Physical Hazard (reactive)

REP Reproductive toxicity

RES Respiratory sensitization

SKI Skin sensitization/irritation/corrosivity

LAN Land Toxicity

NF Not found on Priority Hazard Lists

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)

BM-3 Benchmark 3 (use but still opportunity for improvement)

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

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

BM-U Benchmark Unspecified (insufficient data to benchmark)

LT-P1 List Translator Possible Benchmark 1

LT-1 List Translator Likely Benchmark 1

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

NoGS Unknown (no data on List Translator Lists)

Recycled Types

PreC Preconsumer (Post-Industrial)

PostC Postconsumer

Both Both Preconsumer and Postconsumer

Unk Inclusion of recycled content is unknown

None Does not include recycled content

Other 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.