

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

|                            |                                 |                                                             |
|----------------------------|---------------------------------|-------------------------------------------------------------|
| Inventory Reporting Format | Residuals/Impurities Evaluation | For all contents above the threshold, the manufacturer has: |
| → Basic Method             | → Completed                     |                                                             |
| Threshold Disclosed Per    | Explanation(s) provided :       | Characterized                                               |
| → Product                  | Yes                             | Provided weight and role.                                   |
| Threshold Level            |                                 | Screened                                                    |
| → 100 ppm                  |                                 | Provided screening results using HPDC-approved methods.     |
|                            |                                 | Identified                                                  |
|                            |                                 | Provided name and CAS RN or other 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.

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

41ZERO42 S.R.L. - CERAMIC TILES GROUP BIA - ISO 13006 - EN14411 [ KAOLIN CLAY (PRIMARY CASRN IS 1332-58-7) LT-UNK | CAN NEPHELINE SYENITE LT-UNK TALC BM-1 | CAN | MAM QUARTZ BM-1 | CAN | MAM | GEN FELDSPAR LT-UNK | MAM MICA LT-UNK | MAM ]

Number of Greenscreen BM-4/BM3 contents ... 0  
Contents highest-concern GreenScreen score(s) (BM-1, LT-1, LT-P1) ... BM-1  
Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

"Ceramic" is regarded as a special condition by the HPD collaborative and not screened. Ceramic tile is considered as a single component resulting from the vitrification process in the high temperature kiln process. since individual chemical components are not made available from the finished product, residuals and impurities have no separate impact in the preparation of this HPD. No warnings or hazards are associated with the final, finished product.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

COMPLIANCE See Section 3 for additional listings.

VOC emissions: Emission Classification of Building Materials - M1

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 3.0, available on the HPDC website at: [www.hpd-collaborative.org/hpd-3-0-standard](http://www.hpd-collaborative.org/hpd-3-0-standard)

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| PRODUCT THRESHOLD: 100 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes |
| RESIDUALS AND IMPURITIES NOTES: "Ceramic" is regarded as a special condition by the HPD collaborative and not screened. Ceramic tile is considered as a single component resulting from the vitrification process in the high temperature kiln process. Since individual chemical components are not made available from the finished product, residuals and impurities have no separate impact in the preparation of this HPD. No warnings or hazards are associated with the final, finished product.                                                                                                                                                                                                                                                                                                                                                                                                             |                                                    |
| OTHER PRODUCT NOTES: Porcelain stoneware tiles do not release VOCs, are nonflammable, are flame retardant, and do not release toxic fumes or gases when exposed to high temperatures, do not absorb liquids, vapors or toxic substances; are not affected by household chemicals in low and high concentration: frequent sanitizing intervention (as per Covid19 prevention) do not damage the ceramic surfaces. Porcelain stoneware tiles have a durability equal to the average life of the building (50 years).<br>We recommend wet cutting ore the score and snap method during the installation process. if dust is produced during installation, demolition or removal process are necessary respiratory, hand and eye protections to prevent excess exposure, to avoid the danger inhale crystalline silica. This hazard is associated to occupational use ONLY, not with the standard use of the costumers. |                                                    |

KAOLIN CLAY (PRIMARY CASRN IS 1332-58-7) ID: 12198-85-5

|                                                                                          |                            |                 |                                                                                              |                                            |
|------------------------------------------------------------------------------------------|----------------------------|-----------------|----------------------------------------------------------------------------------------------|--------------------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b>                         |                            |                 | HAZARD SCREENING DATE: <b>2026-06-29 0:47:16</b>                                             |                                            |
| %: <b>20.0000 - 55.0000</b>                                                              | GreenScreen: <b>LT-UNK</b> | RC: <b>PreC</b> | NANO: <b>No</b>                                                                              | SUBSTANCE ROLE: <b>Structure component</b> |
| 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: Hazard is associated to occupational use only, not to installed product |                            |                 |                                                                                              |                                            |

NEPHELINE SYENITE ID: 37244-96-5

|                                                           |                      |                                                |                                           |                                     |
|-----------------------------------------------------------|----------------------|------------------------------------------------|-------------------------------------------|-------------------------------------|
| HAZARD DATA SOURCE: Pharos Chemical and Materials Library |                      |                                                | HAZARD SCREENING DATE: 2026-06-29 0:47:16 |                                     |
| ?: 5.0000 - 50.0000                                       | GreenScreen: LT-UNK  | RC: PreC                                       | NANO: No                                  | SUBSTANCE ROLE: Structure component |
| HAZARD TYPE                                               | LIST NAME AND SOURCE | WARNINGS                                       |                                           |                                     |
| None found                                                |                      | No warnings found on HPD Priority Hazard Lists |                                           |                                     |

| ADDITIONAL LISTINGS                                                                      | LIST NAME AND SOURCE | NOTIFICATION                                 |
|------------------------------------------------------------------------------------------|----------------------|----------------------------------------------|
| None found                                                                               |                      | No listings found on Additional Hazard Lists |
| SUBSTANCE NOTES: Hazard is associated to occupational use only, not to installed product |                      |                                              |

TALC

ID: 14807-96-6

| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                                                         | HAZARD SCREENING DATE: <b>2026-06-29 0:47:17</b>                                                                                                          |                 |                                            |
|------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------------------|
| %: <b>0.0000 - 30.0000</b>                                       | GreenScreen: <b>BM-1</b>                                | RC: <b>PreC</b>                                                                                                                                           | NANO: <b>No</b> | SUBSTANCE ROLE: <b>Structure component</b> |
| HAZARD TYPE                                                      | LIST NAME AND SOURCE                                    | WARNINGS                                                                                                                                                  |                 |                                            |
| CAN                                                              | MAK                                                     | Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification                                                              |                 |                                            |
| CAN                                                              | CA EPA - Prop 65                                        | Carcinogen - specific to chemical form or exposure route                                                                                                  |                 |                                            |
| CAN                                                              | IARC                                                    | Group 2a - Agent is probably Carcinogenic to humans                                                                                                       |                 |                                            |
| MAM                                                              | GHS - Japan                                             | H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1] |                 |                                            |
| MAM                                                              | GHS - Japan                                             | H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1]                                          |                 |                                            |
| ADDITIONAL LISTINGS                                              | LIST NAME AND SOURCE                                    | NOTIFICATION                                                                                                                                              |                 |                                            |
| RESTRICTED LIST                                                  | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v5.0 Product Standard Restricted Substances - Effective March 16, 2026                                                                      |                 |                                            |
|                                                                  |                                                         | Cosmetics & Personal Care Products                                                                                                                        |                 |                                            |

|                                                                                          |  |  |  |  |
|------------------------------------------------------------------------------------------|--|--|--|--|
| SUBSTANCE NOTES: Hazard is associated to occupational use only, not to installed product |  |  |  |  |
|------------------------------------------------------------------------------------------|--|--|--|--|

QUARTZ

ID: 14808-60-7

|                                                                  |                          |                                                  |                 |                                            |
|------------------------------------------------------------------|--------------------------|--------------------------------------------------|-----------------|--------------------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                          | HAZARD SCREENING DATE: <b>2026-06-29 0:47:17</b> |                 |                                            |
| %: <b>10.0000 - 25.0000</b>                                      | GreenScreen: <b>BM-1</b> | RC: <b>PreC</b>                                  | NANO: <b>No</b> | SUBSTANCE ROLE: <b>Structure component</b> |

| 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: Hazard is associated to occupational use only, not to installed product

FELDSPAR

ID: 68476-25-5

|                                                                  |                            |                                                               |                                                  |                                            |
|------------------------------------------------------------------|----------------------------|---------------------------------------------------------------|--------------------------------------------------|--------------------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                            |                                                               | HAZARD SCREENING DATE: <b>2026-06-29 0:47:18</b> |                                            |
| %: <b>0.0000 - 15.0000</b>                                       | GreenScreen: <b>LT-UNK</b> | RC: <b>PreC</b>                                               | NANO: <b>No</b>                                  | SUBSTANCE ROLE: <b>Structure component</b> |
| 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: Hazard is associated to occupational use only, not to installed product

MICA

ID: 12001-26-2

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library**      HAZARD SCREENING DATE: **2026-06-29 0:47:16**

%: **0.0000 - 5.0000**      GreenScreen: **LT-UNK**      RC: **PreC**      NANO: **No**      SUBSTANCE ROLE: **Structure component**

| HAZARD TYPE | LIST NAME AND SOURCE | WARNINGS                                                                                                                                                  |
|-------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| MAM         | GHS - Japan          | H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1] |

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

SUBSTANCE NOTES: BIOTITE



## Section 3: 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

### Emission Classification of Building Materials - M1

**COMPLIANCE TYPE:** Self-declared

**ISSUE DATE:** 2020-05-20

**EXPIRY DATE:** No expiration

**CERTIFIER/VERIFIER/TESTING LAB/AUDITOR:** Modena

Centro Prove - Italy

**COMPLIANCE DETAILS:**

**COMPLIANCE SCOPE:**

**APPLICABLE FACILITIES:** As per LEED: "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 solid wood) are considered fully compliant without any VOC emissions testing if they do not include integral organic-based surface coatings, binders, or sealants.

**COMPLIANCE URL:**

**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.*

### MORTAR AND GROUT

**MANUFACTURER (OR GENERIC):** Generic

HPD URL: no HPD Available

**ACCESSORY TYPE:** Adhesive

**CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:** mortar and grout are the accessories required for the bedded installation . Voc contents depends on the selected products



## Section 5: General Notes

This HPD applies to all impervious tiles of 41zero42 srl collections.

**MANUFACTURER INFORMATION**

MANUFACTURER: **41zero42 srl**  
 ADDRESS: **a.verzani@41zero42.it**  
**martino.m@41zero42.it**  
**Fiorano Modenese, Modena 41042**  
 COUNTRY: **Italy**

WEBSITE: **www.41zero42.com**  
 CONTACT NAME: **info@41zero42.it**  
 TITLE: **quality manager**  
 PHONE: **+39 3494716795**  
 EMAIL: **a.verzani@41zero42.it**

*The listed contact is responsible for the validity of this HPD and attests that it is accurate and complete to the best of his or her knowledge.*

**KEY**
**Hazard Types**

|                                       |                                                   |                                                      |
|---------------------------------------|---------------------------------------------------|------------------------------------------------------|
| <b>AQU</b> Aquatic toxicity           | <b>LAN</b> Land toxicity                          | <b>PHY</b> Physical hazard (flammable or reactive)   |
| <b>CAN</b> Cancer                     | <b>MAM</b> Mammalian/systemic/organ toxicity      | <b>REP</b> Reproductive                              |
| <b>DEV</b> Developmental toxicity     | <b>MUL</b> Multiple                               | <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>NF</b> Not found on Priority Hazard Lists      | <b>UNK</b> Unknown                                   |
| <b>GEN</b> Gene mutation              | <b>OZO</b> Ozone depletion                        |                                                      |
| <b>GLO</b> Global warming             | <b>PBT</b> Persistent, bioaccumulative, and toxic |                                                      |

**GreenScreen (GS)**

|                                                                     |                                                                |
|---------------------------------------------------------------------|----------------------------------------------------------------|
| <b>BM-4</b> Benchmark 4 (prefer-safer chemical)                     | <b>LT-P1</b> List Translator Possible 1 (Possible Benchmark-1) |
| <b>BM-3</b> Benchmark 3 (use but still opportunity for improvement) | <b>LT-1</b> List Translator 1 (Likely Benchmark-1)             |
| <b>BM-2</b> Benchmark 2 (use but search for safer substitutes)      | <b>LT-UNK</b> List Translator Benchmark Unknown                |
| <b>BM-1</b> Benchmark 1 (avoid - chemical of high concern)          | <b>NoGS</b> No GreenScreen.                                    |
| <b>BM-U</b> 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](http://www.greenscreenchemicals.org), and Best Practices for Hazard Screening on the HPDC website ([hpd-collaborative.org](http://hpd-collaborative.org)).

**Recycled Types**

|                                                     |
|-----------------------------------------------------|
| <b>PreC</b> Pre-consumer recycled content           |
| <b>PostC</b> Post-consumer recycled content         |
| <b>UNK</b> Inclusion of recycled content is unknown |
| <b>None</b> Does not include recycled content       |

**Other Terms:**

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

**Inventory Methods:**

|                                           |                                                                             |
|-------------------------------------------|-----------------------------------------------------------------------------|
| <b>Nested Method / Material Threshold</b> | Substances listed within each material per threshold indicated per material |
| <b>Nested Method / Product Threshold</b>  | Substances listed within each material per threshold indicated per product  |
| <b>Basic Method / Product Threshold</b>   | Substances listed individually per threshold indicated per product          |

|                              |                                                            |
|------------------------------|------------------------------------------------------------|
| <b>Nano</b>                  | Composed of nano scale particles or nanotechnology         |
| <b>Third Party Verified</b>  | Verification by independent certifier approved by HPDC     |
| <b>Preparer</b>              | Third party preparer, if not self-prepared by manufacturer |
| <b>Applicable facilities</b> | 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.*