



# HPD

## CERTIFICATION

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tilebar



## DEFINITE COLLECTION

Porcelain Tile  
by Florim USAHealth Product  
Declaration v2.3

created via: HPDC Online Builder

HPD UNIQUE IDENTIFIER: 769817138176

CLASSIFICATION: 09 30 13 Ceramic Tiling

**PRODUCT DESCRIPTION:** All Florim USA porcelain tile products are manufactured in a high-temperature kiln process. The temperatures attained there initiate physical and chemical transformations and reactions resulting in the formation of a hard, dense structure characterized by low porosity (<0.5%) that is chemically inert. Florim USA manufactured porcelain tiles, including all brands sold under the Florim USA umbrella, contain no VOCs, are non-flammable, and do not produce smoke or release toxic gases when exposed to elevated temperatures. Their low porosity prevents the absorption of liquids, vapor, toxic substances, or micro-organisms thereby preventing the generation of reactions, putrefaction, or microbial growth and are suitable for use on floors or walls. Thus, the finished product is one of the most durable, environmentally friendly, and long-lasting choices for interior and exterior use.

## 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  
☐ Other

## Residuals/Impurities Evaluation

- ☒ Completed  
☐ Partially Completed  
☐ Not Completed

## Explanation(s) provided :

- ☒ Yes ☐ No

For all contents above the threshold, the manufacturer has:

**Characterized** ☒ Yes ☐ No

Provided weight and role.

**Screened** ☒ Yes ☐ No

Provided screening results using HPDC-approved methods.

**Identified** ☒ Yes ☐ No

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**

**PORCELAIN TILE | AMORPHOUS QUARTZ BM-1** | CAN | MAM | GEN  
**NEPHELINE SYENITE LT-UNK SILICA SAND BM-1** | CAN | MAM  
**ALUMINUM OXIDE BM-2** | MAM **KAOLINITE NoGS TALC BM-1** | CAN | MAM  
**B2O3 BM-1** | REP | MUL | MAM | SKI | EYE **TITANIUM DIOXIDE BM-1** | CAN | END | MAM **IRON OXIDE BM-1** | CAN | MAM **SODIUM OXIDE BM-2** **POTASSIUM OXIDE BM-2** **CHROMIUM IRON OXIDE LT-P1** | SKI **C.I. PIGMENT BLUE 72 LT-1** | CAN | RES | GEN **MAGNESIUM CALCIUM SILICATE NoGS CARBONIC ACID, MAGNESIUM SALT (1:1) BM-3dg** **CALCIUM OXIDE BM-2** | SKI | MAM | EYE **FRITS, CHEMICALS LT-P1** | MUL **SODIUM SILICATE LT-P1** | END | SKI | EYE **IRON OXIDE LT-UNK C.I. PIGMENT BROWN 33 LT-UNK RUTILE, SUBSTITUTED: INORGANIC COLOUR PIGMENTS (SYNTHETIC MATERIALS), CHEMICALLY AND THERMICALLY STABLE NoGS REACTION MASS OF FUMES, SILICA AND DIIRON TRIOXIDE NoGS C.I. PIGMENT BROWN 24 BM-1** **MAGNESIUM OXIDE BM-3dg** | CAN | MAM **NATURALLY OCCURRING SUBSTANCES (CLAY) NoGS C.I. PIGMENT BLACK 27 LT-1** | CAN | RES | GEN **CALCIUM CARBONATE BM-3** | EYE **C.I. PIGMENT YELLOW 159 LT-UNK C.I. PIGMENT BLUE 73 LT-UNK MANGANESE OXIDE (MNO2) BM-1** | MUL | EYE | MAM | GEN | REP **ZINC OXIDE BM-1** | END | MUL | AQU | MAM | REP **TIN OXIDE (SNO2) LT-UNK** | EYE | MAM **ALUMINUM HYDROXIDE BM-2** | SKI | EYE **BARIUM OXIDE (BAO) LT-UNK** | MAM | SKI | EYE **C.I. PIGMENT BLUE 28 LT-1** | CAN | RES | GEN **CARBONIC ACID, MAGNESIUM SALT LT-UNK ZIRCONIUM OXIDE (ZRO2) LT-P1** | CAN | EYE **SODIUM POLYACRYLATE LT-UNK** | EYE | CAN | MAM **ZIRCON (ZR(SIO4)) BM-2** **CALCIUM CARBONATE BM-3dg** **SILICIC ACID, ALUMINUM CALCIUM SODIUM SALT LT-UNK**

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

Contents highest-concern GreenScreen score(s) (BM-1, LT-1, LT-P1) ...

BM-1, LT-P1, LT-1

Nanomaterial ... No

## INVENTORY AND SCREENING NOTES:

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



**VOLATILE ORGANIC COMPOUND (VOC) CONTENT**

VOC Content data is not applicable for this product category.

**CERTIFICATIONS AND COMPLIANCE** *See Section 3 for additional listings.*

VOC emissions: UL/GreenGuard Gold Certified  
Multi-attribute: Green Squared Certification

**CONSISTENCY WITH OTHER PROGRAMS**

Pre-checked for LEED v4 Option 1.  
Pre-checked for LEED v4.1 Option 1.

Third Party Verified?

- ☒ Yes  
☐ No

PREPARER: Self-Prepared  
VERIFIER: WAP Sustainability Consulting  
VERIFICATION #: zPr-25222

SCREENING DATE: 2025-06-30  
PUBLISHED DATE: 2025-06-30  
EXPIRY DATE: 2028-06-30



## 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 2.3, available on the HPDC website at: [www.hpd-collaborative.org/hpd-2-3-standard](http://www.hpd-collaborative.org/hpd-2-3-standard)

### PORCELAIN TILE

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes

RESIDUALS AND IMPURITIES NOTES: All suppliers provided residual and impurity information and those that fall above the stated threshold are included on this HPD.

OTHER PRODUCT NOTES: The substance percentage ranges ensure coverage of all porcelain tile products which includes different alternative base materials and pigments according to the desired color and specification of the final product. Additionally, post-industrial recycled content from scrap products is utilized during the manufacture of this product, meaning all substances could have post-industrial recycled content included.

### AMORPHOUS QUARTZ

ID: 14808-60-7

HAZARD DATA SOURCE: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2025-06-30 7:56:03

%, 30.0000 - 50.0000 GreenScreen: BM-1 RC: PostC NANO: No SUBSTANCE ROLE: Structure 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: The percentage substance ranges ensures coverage of all porcelain tile products which includes different alternative base materials and pigments according to the desired color and specification of the final product. Additionally, post-industrial recycled content from scrap products is utilized during the manufacture of this product, meaning all substances could have post-industrial recycled content included.

## NEPHELINE SYENITE

ID: 37244-96-5

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2025-06-30 7:56:03**

%: **20.0000 - 30.0000** GreenScreen: **LT-UNK** RC: **None** 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:

## SILICA SAND

ID: 7631-86-9

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2025-06-30 7:56:05**

%: **15.0000 - 25.0000** GreenScreen: **BM-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Impurity**

| HAZARD TYPE | LIST NAME AND SOURCE | WARNINGS                                                                                                                                                  |
|-------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAN         | GHS - Japan          | H350 - May cause cancer [Carcinogenicity - Category 1A]                                                                                                   |
| CAN         | GHS - Australia      | H350i - May cause cancer by inhalation [Carcinogenicity - Category 1A or 1B]                                                                              |
| 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] |
| MAM         | GHS - Australia      | H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organ toxicity - repeated exposure - Category 1]                   |

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                  | NOTIFICATION                                            |
|---------------------|---------------------------------------|---------------------------------------------------------|
| RESTRICTED LIST     | Green Science Policy Institute (GSPI) | GSPI - Six Classes Precautionary List<br>Antimicrobials |



ALUMINUM OXIDE

ID: 1344-28-1

HAZARD DATA SOURCE: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2025-06-30 7:56:06

|                      |                                                         |                                                                                                                                                           |                 |                                            |
|----------------------|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------------------|
| %: 10.0000 - 20.0000 | GreenScreen: <b>BM-2</b>                                | RC: <b>None</b>                                                                                                                                           | NANO: <b>No</b> | SUBSTANCE ROLE: <b>Structure component</b> |
| HAZARD TYPE          | LIST NAME AND SOURCE                                    | WARNINGS                                                                                                                                                  |                 |                                            |
| 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 v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022                                                             |                 |                                            |
|                      |                                                         | Biological and Environmentally Released Materials                                                                                                         |                 |                                            |
| RESTRICTED LIST      | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022                                                             |                 |                                            |
|                      |                                                         | Children's Products                                                                                                                                       |                 |                                            |
| RESTRICTED LIST      | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2024                                                                        |                 |                                            |
|                      |                                                         | Children's Toy Products                                                                                                                                   |                 |                                            |

KAOLINITE

ID: 1318-74-7

HAZARD DATA SOURCE: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2025-06-30 7:56:04

|                     |                      |                                                |          |                                     |
|---------------------|----------------------|------------------------------------------------|----------|-------------------------------------|
| %: 0.0000 - 5.0000  | GreenScreen: NoGS    | RC: None                                       | 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   |          |                                     |

TALC

ID: 14807-96-6

HAZARD DATA SOURCE: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2025-06-30 7:56:05



|                     |                      |                                              |                 |                                                                                                                                                           |                                            |
|---------------------|----------------------|----------------------------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| %: 0.0000 - 5.0000  |                      | GreenScreen: <b>BM-1</b>                     | RC: <b>None</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                                                                                                                                              |                                            |
| None found          |                      | No listings found on Additional Hazard Lists |                 |                                                                                                                                                           |                                            |
| SUBSTANCE NOTES:    |                      |                                              |                 |                                                                                                                                                           |                                            |

|                                                                  |  |                          |                                                  |                 |                                            |
|------------------------------------------------------------------|--|--------------------------|--------------------------------------------------|-----------------|--------------------------------------------|
| <b>B203</b>                                                      |  | ID: <b>1303-86-2</b>     |                                                  |                 |                                            |
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |  |                          | HAZARD SCREENING DATE: <b>2025-06-30 7:56:07</b> |                 |                                            |
| %: 0.0000 - 5.0000                                               |  | GreenScreen: <b>BM-1</b> | RC: <b>None</b>                                  | NANO: <b>No</b> | SUBSTANCE ROLE: <b>Structure component</b> |



| HAZARD TYPE         | LIST NAME AND SOURCE                                    | WARNINGS                                                                                                                                               |
|---------------------|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| REP                 | EU - Annex VI CMRs                                      | Reproductive Toxicity - Category 1B                                                                                                                    |
| MUL                 | ChemSec - SIN List                                      | CMR - Carcinogen, Mutagen &/or Reproductive Toxicant                                                                                                   |
| REP                 | GHS - Japan                                             | H360 - May damage fertility or the unborn child [Toxic to reproduction - Category 1B]                                                                  |
| REP                 | GHS - Australia                                         | H360FD - May damage fertility. May damage the unborn child [Reproductive toxicity - Category 1A or 1B]                                                 |
| REP                 | GHS - Korea                                             | H360 - May damage fertility or the unborn child [Reproductive toxicity - Category 1]                                                                   |
| REP                 | EU - GHS (H-Statements) Annex 6 Table 3-1               | H360FD - May damage fertility. May damage the unborn child [Reproductive toxicity - Category 1A or 1B]                                                 |
| MAM                 | GHS - Japan                                             | H335 - May cause respiratory irritation [Specific target organ toxicity - Single exposure - Category 3]                                                |
| SKI                 | GHS - New Zealand                                       | Skin irritation category 2                                                                                                                             |
| EYE                 | GHS - New Zealand                                       | Eye irritation category 2                                                                                                                              |
| EYE                 | GHS - Japan                                             | H319 - Causes serious eye irritation [Serious eye damage / eye irritation - Category 2A]                                                               |
| REP                 | EU - SVHC List                                          | Toxic to reproduction - Candidate list                                                                                                                 |
| REP                 | EU - SVHC List                                          | Toxic to reproduction - Prioritized for listing                                                                                                        |
| REP                 | EU - REACH Annex XVII CMRs                              | Reproductive toxicants: Category 1B                                                                                                                    |
| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                    | NOTIFICATION                                                                                                                                           |
| RESTRICTED LIST     | Green Science Policy Institute (GSPI)                   | GSPI - Six Classes Precautionary List<br><br>Antimicrobials                                                                                            |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Biological and Environmentally Released Materials |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Children's Products                               |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Formulated Consumer Products                      |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2024<br><br>All Products                                                 |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2024<br><br>Children's Toy Products                                      |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2024<br><br>Cosmetics and Personal Care Products                         |



TITANIUM DIOXIDE

ID: 13463-67-7

HAZARD DATA SOURCE: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2025-06-30 7:59:53

%: 0.0000 - 5.0000 GreenScreen: BM-1 RC: None NANO: No SUBSTANCE ROLE: Pigment

| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | IARC                                                    | Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources**                                                                            |
| CAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | MAK                                                     | Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value**                                                      |
| END                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | TEDX - Potential Endocrine Disruptors                   | Potential Endocrine Disruptor**                                                                                                                             |
| CAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | MAK                                                     | Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels**                                                                          |
| CAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | IARC                                                    | Group 2b - Possibly carcinogenic to humans**                                                                                                                |
| CAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | EU - GHS (H-Statements) Annex 6 Table 3-1               | H351 - Suspected of causing cancer [Carcinogenicity - Category 2]**                                                                                         |
| CAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | GHS - Japan                                             | H351 - Suspected of causing cancer [Carcinogenicity - Category 2]**                                                                                         |
| 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 v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Children's Products                                        |
| RESTRICTED LIST                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Formulated Consumer Products                               |
| RESTRICTED LIST                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Cosmetics & Personal Care Products                         |
| POSITIVE LIST                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | US Environmental Protection Agency (US EPA)             | US EPA - DfE Safer Chemicals Ingredients list (SCIL)<br>Colorants - Green Circle (Verified Low Concern)                                                     |
| RESTRICTED LIST                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2024<br>Cosmetics and Personal Care Products                                  |
| SUBSTANCE NOTES: **Form-Specific Hazard: This substance's GreenScreen Benchmark or List Translator score and the applicable hazards are related to particulate inhalation, which is expected to occur only during manufacture, installation, maintenance, or demolition, due to activities such as sawing, sanding, grinding, or intensive cleaning. See HPDC's Special Conditions policy for more information. Manufacturer's Safety Data Sheet (SDS), if applicable, may offer occupational health and safety information. |                                                         |                                                                                                                                                             |

IRON OXIDE

ID: 1309-37-1

HAZARD DATA SOURCE: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2025-06-30 8:22:42

%: 0.0000 - 2.0000 GreenScreen: BM-1 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**                                                              |
| 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                                                                                                                                                |
| None found                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                      | No listings found on Additional Hazard Lists                                                                                                                |
| SUBSTANCE NOTES: **Form-Specific Hazard: This substance's GreenScreen Benchmark or List Translator score and the applicable hazards are related to particulate inhalation, which is expected to occur only during manufacture, installation, maintenance, or demolition, due to activities such as sawing, sanding, grinding, or intensive cleaning. See HPDC's Special Conditions policy for more information. Manufacturer's Safety Data Sheet (SDS), if applicable, may offer occupational health and safety information. |                      |                                                                                                                                                             |

## SODIUM OXIDE

ID: 1313-59-3

|                                                                  |                          |                 |                                                  |                                            |
|------------------------------------------------------------------|--------------------------|-----------------|--------------------------------------------------|--------------------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                          |                 | HAZARD SCREENING DATE: <b>2025-06-30 7:56:08</b> |                                            |
| %: <b>0.0000 - 2.0000</b>                                        | GreenScreen: <b>BM-2</b> | RC: <b>None</b> | NANO: <b>No</b>                                  | SUBSTANCE ROLE: <b>Structure component</b> |
| 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:                                                 |                          |                 |                                                  |                                            |

## POTASSIUM OXIDE

ID: 12136-45-7

|                                                                  |                          |                                                |                                                  |                                 |
|------------------------------------------------------------------|--------------------------|------------------------------------------------|--------------------------------------------------|---------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                          |                                                | HAZARD SCREENING DATE: <b>2025-06-30 7:56:08</b> |                                 |
| %: <b>1.0000 - 2.0000</b>                                        | GreenScreen: <b>BM-2</b> | RC: <b>None</b>                                | NANO: <b>No</b>                                  | SUBSTANCE ROLE: <b>Impurity</b> |
| 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:                                                 |                          |                                                |                                                  |                                 |



## CHROMIUM IRON OXIDE

ID: 12737-27-8

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2025-06-30 7:56:06**

|                     |                                                         |                                                                                               |          |                         |
|---------------------|---------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------|-------------------------|
| %: 0.0000 - 2.0000  | GreenScreen: LT-P1                                      | RC: None                                                                                      | NANO: No | SUBSTANCE ROLE: Pigment |
| HAZARD TYPE         | LIST NAME AND SOURCE                                    | WARNINGS                                                                                      |          |                         |
| SKI                 | MAK                                                     | Sensitizing Substance Sh - Danger of skin sensitization                                       |          |                         |
| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                    | NOTIFICATION                                                                                  |          |                         |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP11) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 |          |                         |
|                     |                                                         | Biological and Environmentally Released Materials                                             |          |                         |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP11) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 |          |                         |
|                     |                                                         | Children's Products                                                                           |          |                         |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP11) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2024            |          |                         |
|                     |                                                         | Children's Toy Products                                                                       |          |                         |
| SUBSTANCE NOTES:    |                                                         |                                                                                               |          |                         |

## C.I. PIGMENT BLUE 72

ID: 68186-87-8

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2025-06-30 7:56:10**

|                           |                                                          |                                                                                               |                 |                                |
|---------------------------|----------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------|--------------------------------|
| %: <b>0.0000 - 1.0000</b> | GreenScreen: <b>LT-1</b>                                 | RC: <b>None</b>                                                                               | NANO: <b>No</b> | SUBSTANCE ROLE: <b>Pigment</b> |
| HAZARD TYPE               | LIST NAME AND SOURCE                                     | WARNINGS                                                                                      |                 |                                |
| CAN                       | MAK                                                      | Carcinogen Group 2 - Considered to be carcinogenic for man                                    |                 |                                |
| RES                       | MAK                                                      | Sensitizing Substance Sah - Danger of airway & skin sensitization                             |                 |                                |
| GEN                       | MAK                                                      | Germ Cell Mutagen 3a                                                                          |                 |                                |
| ADDITIONAL LISTINGS       | LIST NAME AND SOURCE                                     | NOTIFICATION                                                                                  |                 |                                |
| RESTRICTED LIST           | Cradle to Cradle Products Innovation Institute (C2CP2II) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 |                 |                                |
|                           |                                                          | Biological and Environmentally Released Materials                                             |                 |                                |
| RESTRICTED LIST           | Cradle to Cradle Products Innovation Institute (C2CP2II) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 |                 |                                |
|                           |                                                          | Children's Products                                                                           |                 |                                |
| RESTRICTED LIST           | Cradle to Cradle Products Innovation Institute (C2CP2II) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2024            |                 |                                |
|                           |                                                          | Children's Toy Products                                                                       |                 |                                |



SUBSTANCE NOTES:

## MAGNESIUM CALCIUM SILICATE

ID: 14483-19-3

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2025-06-30 7:56:13**

?: **0.0000 - 1.0000** GreenScreen: **NoGS** RC: **None** 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:

## CARBONIC ACID, MAGNESIUM SALT (1:1)

ID: 546-93-0

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2025-06-30 7:56:16**

?: **0.0000 - 1.0000** GreenScreen: **BM-3dg** RC: **None** NANO: **Unknown** 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:

## CALCIUM OXIDE

ID: 1305-78-8

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2025-06-30 7:56:09**

?: **0.0000 - 1.0000** GreenScreen: **BM-2** RC: **None** NANO: **No** SUBSTANCE ROLE: **Impurity**



| HAZARD TYPE         | LIST NAME AND SOURCE                  | WARNINGS                                                                                                                                                  |
|---------------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| SKI                 | GHS - Australia                       | H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]                                                                                    |
| 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]                                          |
| SKI                 | GHS - New Zealand                     | Skin corrosion category 1C                                                                                                                                |
| EYE                 | GHS - New Zealand                     | Serious eye damage category 1                                                                                                                             |
| EYE                 | GHS - Japan                           | H318 - Causes serious eye damage [Serious eye damage / eye irritation - Category 1]                                                                       |
| SKI                 | GHS - Japan                           | H315 - Causes skin irritation [Skin corrosion / irritation - Category 2]                                                                                  |
| EYE                 | GHS - Australia                       | H318 - Causes serious eye damage [Serious eye damage/eye irritation - Category 1]                                                                         |
| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                  | NOTIFICATION                                                                                                                                              |
| RESTRICTED LIST     | Green Science Policy Institute (GSPI) | GSPI - Six Classes Precautionary List<br><br>Antimicrobials                                                                                               |
| SUBSTANCE NOTES:    |                                       |                                                                                                                                                           |

## FRITS, CHEMICALS

ID: 65997-18-4

|                                                                  |                                                         |                 |                                                                                    |                              |
|------------------------------------------------------------------|---------------------------------------------------------|-----------------|------------------------------------------------------------------------------------|------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                                                         |                 | HAZARD SCREENING DATE: <b>2025-06-30 7:56:11</b>                                   |                              |
| %: <b>0.0500 - 1.0000</b>                                        | GreenScreen: <b>LT-P1</b>                               | RC: <b>None</b> | NANO: <b>No</b>                                                                    | SUBSTANCE ROLE: <b>Glaze</b> |
| HAZARD TYPE                                                      | LIST NAME AND SOURCE                                    |                 | WARNINGS                                                                           |                              |
| MUL                                                              | German FEA - Substances Hazardous to Waters             |                 | Class 3 - Severe Hazard to Waters                                                  |                              |
| ADDITIONAL LISTINGS                                              | LIST NAME AND SOURCE                                    |                 | NOTIFICATION                                                                       |                              |
| RESTRICTED LIST                                                  | Cradle to Cradle Products Innovation Institute (C2CP11) |                 | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2024 |                              |
|                                                                  |                                                         |                 | Electronics (RoHS)                                                                 |                              |
| SUBSTANCE NOTES:                                                 |                                                         |                 |                                                                                    |                              |

## SODIUM SILICATE

ID: 1344-09-8

|                                                                  |                           |                 |                                                  |                                   |
|------------------------------------------------------------------|---------------------------|-----------------|--------------------------------------------------|-----------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                           |                 | HAZARD SCREENING DATE: <b>2025-06-30 7:56:17</b> |                                   |
| %: <b>0.2500 - 0.5000</b>                                        | GreenScreen: <b>LT-P1</b> | RC: <b>None</b> | NANO: <b>No</b>                                  | SUBSTANCE ROLE: <b>Dispersant</b> |



| 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<br>Antimicrobials                                              |
| SUBSTANCE NOTES:    |                                       |                                                                                                      |

## IRON OXIDE

ID: 1332-37-2

|                                                                  |                            |                                                |                                                  |                                 |
|------------------------------------------------------------------|----------------------------|------------------------------------------------|--------------------------------------------------|---------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                            |                                                | HAZARD SCREENING DATE: <b>2025-06-30 8:03:53</b> |                                 |
| %: <b>0.1000 - 0.5000</b>                                        | GreenScreen: <b>LT-UNK</b> | RC: <b>None</b>                                | NANO: <b>No</b>                                  | SUBSTANCE ROLE: <b>Impurity</b> |
| 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:                                                 |                            |                                                |                                                  |                                 |

## C.I. PIGMENT BROWN 33

ID: 68186-88-9

|                                                                  |                            |                                                |                                                  |                                |
|------------------------------------------------------------------|----------------------------|------------------------------------------------|--------------------------------------------------|--------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                            |                                                | HAZARD SCREENING DATE: <b>2025-06-30 7:56:20</b> |                                |
| %: <b>0.0000 - 0.5000</b>                                        | GreenScreen: <b>LT-UNK</b> | RC: <b>None</b>                                | NANO: <b>No</b>                                  | SUBSTANCE ROLE: <b>Pigment</b> |
| 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:                                                 |                            |                                                |                                                  |                                |

**RUTILE, SUBSTITUTED: INORGANIC COLOUR PIGMENTS (SYNTHETIC MATERIALS), CHEMICALLY AND THERMICALLY STABLE**

ID: 68186-92-5



|                                                                  |                          |                                                |                                                  |                                |
|------------------------------------------------------------------|--------------------------|------------------------------------------------|--------------------------------------------------|--------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                          |                                                | HAZARD SCREENING DATE: <b>2025-06-30 7:56:18</b> |                                |
| %: <b>0.0000 - 0.5000</b>                                        | GreenScreen: <b>NoGS</b> | RC: <b>None</b>                                | NANO: <b>No</b>                                  | SUBSTANCE ROLE: <b>Pigment</b> |
| 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:                                                 |                          |                                                |                                                  |                                |

| REACTION MASS OF FUMES, SILICA AND DIIRON TRIOXIDE        |                      |                                           |                                                | ID: 1353091-50-5        |
|-----------------------------------------------------------|----------------------|-------------------------------------------|------------------------------------------------|-------------------------|
| HAZARD DATA SOURCE: Pharos Chemical and Materials Library |                      | HAZARD SCREENING DATE: 2025-06-30 7:56:07 |                                                |                         |
| %: 0.0000 - 0.2500                                        | GreenScreen: NoGS    | RC: None                                  | NANO: No                                       | SUBSTANCE ROLE: Pigment |
| 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:                                          |                      |                                           |                                                |                         |

|                                                                  |                          |                                                |                                                  |                                |
|------------------------------------------------------------------|--------------------------|------------------------------------------------|--------------------------------------------------|--------------------------------|
| <b>C.I. PIGMENT BROWN 24</b>                                     |                          |                                                | ID: <b>68186-90-3</b>                            |                                |
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                          |                                                | HAZARD SCREENING DATE: <b>2025-06-30 7:56:13</b> |                                |
| %: <b>0.0000 - 0.2500</b>                                        | GreenScreen: <b>BM-1</b> | RC: <b>None</b>                                | NANO: <b>No</b>                                  | SUBSTANCE ROLE: <b>Pigment</b> |
| HAZARD TYPE                                                      | LIST NAME AND SOURCE     | WARNINGS                                       |                                                  |                                |
| None found                                                       |                          | No warnings found on HPD Priority Hazard Lists |                                                  |                                |



| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                     | NOTIFICATION                                                                                                                                           |
|---------------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Biological and Environmentally Released Materials |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Children's Products                               |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Cosmetics & Personal Care Products                |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2024<br><br>Children's Toy Products                                      |
| SUBSTANCE NOTES:    |                                                          |                                                                                                                                                        |

## MAGNESIUM OXIDE

ID: 1309-48-4

|                                                                  |                            |                 |                                                                                                         |                                 |
|------------------------------------------------------------------|----------------------------|-----------------|---------------------------------------------------------------------------------------------------------|---------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                            |                 | HAZARD SCREENING DATE: <b>2025-06-30 7:56:15</b>                                                        |                                 |
| %: <b>0.0000 - 0.2500</b>                                        | GreenScreen: <b>BM-3dg</b> | RC: <b>None</b> | NANO: <b>No</b>                                                                                         | SUBSTANCE ROLE: <b>Impurity</b> |
| HAZARD TYPE                                                      | LIST NAME AND SOURCE       |                 | WARNINGS                                                                                                |                                 |
| CAN                                                              | MAK                        |                 | Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels                        |                                 |
| MAM                                                              | GHS - Japan                |                 | H335 - May cause respiratory irritation [Specific target organ toxicity - Single exposure - Category 3] |                                 |
| ADDITIONAL LISTINGS                                              | LIST NAME AND SOURCE       |                 | NOTIFICATION                                                                                            |                                 |
| None found                                                       |                            |                 | No listings found on Additional Hazard Lists                                                            |                                 |
| SUBSTANCE NOTES:                                                 |                            |                 |                                                                                                         |                                 |

## NATURALLY OCCURRING SUBSTANCES (CLAY)

ID: 999999-99-4

| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                          |                                                | HAZARD SCREENING DATE: <b>2025-06-30 7:56:14</b> |                              |
|------------------------------------------------------------------|--------------------------|------------------------------------------------|--------------------------------------------------|------------------------------|
| %: <b>0.0000 - 0.1500</b>                                        | GreenScreen: <b>NoGS</b> | RC: <b>None</b>                                | NANO: <b>No</b>                                  | SUBSTANCE ROLE: <b>Glaze</b> |
| 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:

## C.I. PIGMENT BLACK 27

ID: 68186-97-0

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2025-06-30 7:56:12**

%: **0.0000 - 0.1250** GreenScreen: **LT-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Pigment**

| HAZARD TYPE | LIST NAME AND SOURCE | WARNINGS |
|-------------|----------------------|----------|
|-------------|----------------------|----------|

|     |     |                                                            |
|-----|-----|------------------------------------------------------------|
| CAN | MAK | Carcinogen Group 2 - Considered to be carcinogenic for man |
|-----|-----|------------------------------------------------------------|

|     |     |                                                                   |
|-----|-----|-------------------------------------------------------------------|
| RES | MAK | Sensitizing Substance Sah - Danger of airway & skin sensitization |
|-----|-----|-------------------------------------------------------------------|

|     |     |                      |
|-----|-----|----------------------|
| GEN | MAK | Germ Cell Mutagen 3a |
|-----|-----|----------------------|

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE | NOTIFICATION |
|---------------------|----------------------|--------------|
|---------------------|----------------------|--------------|

|                 |                                                         |                                                                                                                                                        |
|-----------------|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST | Cradle to Cradle Products Innovation Institute (C2CP11) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Biological and Environmentally Released Materials |
|-----------------|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|

|                 |                                                         |                                                                                                                          |
|-----------------|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST | Cradle to Cradle Products Innovation Institute (C2CP11) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Children's Products |
|-----------------|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|

|                 |                                                         |                                                                                                                   |
|-----------------|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST | Cradle to Cradle Products Innovation Institute (C2CP11) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2024<br><br>Children's Toy Products |
|-----------------|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|

SUBSTANCE NOTES:

## CALCIUM CARBONATE

ID: 471-34-1

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2025-06-30 7:56:11**

%: **0.0000 - 0.1000** GreenScreen: **BM-3** RC: **None** NANO: **No** SUBSTANCE ROLE: **Structure component**

| 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:



C.I. PIGMENT YELLOW 159

ID: 68187-15-5

|                                                                  |                            |                 |                                                  |                                |
|------------------------------------------------------------------|----------------------------|-----------------|--------------------------------------------------|--------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                            |                 | HAZARD SCREENING DATE: <b>2025-06-30 7:56:13</b> |                                |
| ?: <b>0.0000 - 0.1000</b>                                        | GreenScreen: <b>LT-UNK</b> | RC: <b>None</b> | NANO: <b>No</b>                                  | SUBSTANCE ROLE: <b>Pigment</b> |
| 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:                                                 |                            |                 |                                                  |                                |

C.I. PIGMENT BLUE 73

ID: 68187-40-6

|                                                                  |                            |                                                |                                                  |                                |
|------------------------------------------------------------------|----------------------------|------------------------------------------------|--------------------------------------------------|--------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                            |                                                | HAZARD SCREENING DATE: <b>2025-06-30 7:56:16</b> |                                |
| ?: <b>0.0000 - 0.1000</b>                                        | GreenScreen: <b>LT-UNK</b> | RC: <b>None</b>                                | NANO: <b>No</b>                                  | SUBSTANCE ROLE: <b>Pigment</b> |
| 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:                                                 |                            |                                                |                                                  |                                |

MANGANESE OXIDE (MNO2)

ID: 1313-13-9

|                                                                  |                          |                                                  |                 |                                 |
|------------------------------------------------------------------|--------------------------|--------------------------------------------------|-----------------|---------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                          | HAZARD SCREENING DATE: <b>2025-06-30 7:56:11</b> |                 |                                 |
| ?: <b>0.0000 - 0.1000</b>                                        | GreenScreen: <b>BM-1</b> | RC: <b>None</b>                                  | NANO: <b>No</b> | SUBSTANCE ROLE: <b>Impurity</b> |



| HAZARD TYPE         | LIST NAME AND SOURCE                                   | WARNINGS                                                                                                                                                  |
|---------------------|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| MUL                 | German FEA - Substances Hazardous to Waters            | Class 3 - Severe Hazard to Waters                                                                                                                         |
| EYE                 | GHS - New Zealand                                      | Eye irritation category 2                                                                                                                                 |
| 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                                                                                             |
| MAM                 | GHS - Japan                                            | H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1]                                          |
| MAM                 | GHS - New Zealand                                      | Acute inhalation toxicity category 2                                                                                                                      |
| REP                 | GHS - New Zealand                                      | Reproductive toxicity category 2                                                                                                                          |
| REP                 | GHS - New Zealand                                      | Effects on or via lactation                                                                                                                               |
| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                   | NOTIFICATION                                                                                                                                              |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Biological and Environmentally Released Materials    |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Children's Products                                  |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2024<br><br>Children's Toy Products                                         |
| SUBSTANCE NOTES:    |                                                        |                                                                                                                                                           |

## ZINC OXIDE

ID: 1314-13-2

|                                                                  |                          |                 |                                                  |                                            |
|------------------------------------------------------------------|--------------------------|-----------------|--------------------------------------------------|--------------------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                          |                 | HAZARD SCREENING DATE: <b>2025-06-30 7:56:09</b> |                                            |
| ?: <b>0.0050 - 0.1000</b>                                        | GreenScreen: <b>BM-1</b> | RC: <b>None</b> | NANO: <b>No</b>                                  | SUBSTANCE ROLE: <b>Structure component</b> |



| HAZARD TYPE         | LIST NAME AND SOURCE                                     | WARNINGS                                                                                                                                               |
|---------------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| END                 | TEDX - Potential Endocrine Disruptors                    | Potential Endocrine Disruptor                                                                                                                          |
| MUL                 | German FEA - Substances Hazardous to Waters              | Class 3 - Severe 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<br><br>Antimicrobials                                                                                            |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Biological and Environmentally Released Materials |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Children's Products                               |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2024<br><br>Children's Toy Products                                      |
| SUBSTANCE NOTES:    |                                                          |                                                                                                                                                        |



|                                                                                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div> <div>%: 0.0000 - 0.1000</div> <div>GreenScreen: <b>LT-UNK</b></div> <div>RC: <b>None</b></div> <div>NANO: <b>Unknown</b></div> <div>SUBSTANCE ROLE: <b>Pigment</b></div> </div>                                   |
| <div> <div>HAZARD TYPE</div> <div>LIST NAME AND SOURCE</div> <div>WARNINGS</div> </div>                                                                                                                                 |
| <div> <div>EYE</div> <div>GHS - New Zealand</div> <div>Eye irritation category 2</div> </div>                                                                                                                           |
| <div> <div>MAM</div> <div>GHS - Japan</div> <div>H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]</div> </div> |
| <div> <div>ADDITIONAL LISTINGS</div> <div>LIST NAME AND SOURCE</div> <div>NOTIFICATION</div> </div>                                                                                                                     |
| <div> <div>None found</div> <div>No listings found on Additional Hazard Lists</div> </div>                                                                                                                              |
| <div> <div>SUBSTANCE NOTES:</div> </div>                                                                                                                                                                                |

| ALUMINUM HYDROXIDE                                               |                                                          |                                                                                               |                                                  | ID: 21645-51-2                             |
|------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                                                          |                                                                                               | HAZARD SCREENING DATE: <b>2025-06-30 7:56:18</b> |                                            |
| %: <b>0.0000 - 0.1000</b>                                        | GreenScreen: <b>BM-2</b>                                 | RC: <b>None</b>                                                                               | NANO: <b>No</b>                                  | SUBSTANCE ROLE: <b>Structure component</b> |
| HAZARD TYPE                                                      | LIST NAME AND SOURCE                                     |                                                                                               | WARNINGS                                         |                                            |
| SKI                                                              | GHS - New Zealand                                        |                                                                                               | Skin irritation category 2                       |                                            |
| EYE                                                              | GHS - New Zealand                                        |                                                                                               | Eye irritation category 2                        |                                            |
| ADDITIONAL LISTINGS                                              | LIST NAME AND SOURCE                                     |                                                                                               | NOTIFICATION                                     |                                            |
| RESTRICTED LIST                                                  | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 |                                                  |                                            |
|                                                                  |                                                          | Biological and Environmentally Released Materials                                             |                                                  |                                            |
| RESTRICTED LIST                                                  | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 |                                                  |                                            |
|                                                                  |                                                          | Children's Products                                                                           |                                                  |                                            |
| RESTRICTED LIST                                                  | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2024            |                                                  |                                            |
|                                                                  |                                                          | Children's Toy Products                                                                       |                                                  |                                            |
| SUBSTANCE NOTES:                                                 |                                                          |                                                                                               |                                                  |                                            |

|                                                           |                     |          |                                           |                          |
|-----------------------------------------------------------|---------------------|----------|-------------------------------------------|--------------------------|
| BARIUM OXIDE (BAO)                                        |                     |          |                                           | ID: 1304-28-5            |
| HAZARD DATA SOURCE: Pharos Chemical and Materials Library |                     |          | HAZARD SCREENING DATE: 2025-06-30 7:56:17 |                          |
| 0.0000 - 0.0500                                           | GreenScreen: LT-UNK | RC: None | NANO: No                                  | SUBSTANCE ROLE: Impurity |



| HAZARD TYPE         | LIST NAME AND SOURCE                                     | WARNINGS                                                                                                                                                  |
|---------------------|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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] |
| MAM                 | GHS - Japan                                              | H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1]                                          |
| SKI                 | GHS - Japan                                              | H315 - Causes skin irritation [Skin corrosion / irritation - Category 2]                                                                                  |
| EYE                 | GHS - Japan                                              | H319 - Causes serious eye irritation [Serious eye damage / eye irritation - Category 2A]                                                                  |
| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                     | NOTIFICATION                                                                                                                                              |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Biological and Environmentally Released Materials    |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Children's Products                                  |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2024<br><br>Children's Toy Products                                         |
| SUBSTANCE NOTES:    |                                                          |                                                                                                                                                           |

## C.I. PIGMENT BLUE 28

ID: 1345-16-0

| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                          |                                                                   | HAZARD SCREENING DATE: <b>2025-06-30 7:56:14</b> |                                |
|------------------------------------------------------------------|--------------------------|-------------------------------------------------------------------|--------------------------------------------------|--------------------------------|
| ‰: <b>0.0000 - 0.0500</b>                                        | GreenScreen: <b>LT-1</b> | RC: <b>None</b>                                                   | NANO: <b>No</b>                                  | SUBSTANCE ROLE: <b>Pigment</b> |
| HAZARD TYPE                                                      | LIST NAME AND SOURCE     | WARNINGS                                                          |                                                  |                                |
| CAN                                                              | MAK                      | Carcinogen Group 2 - Considered to be carcinogenic for man        |                                                  |                                |
| RES                                                              | MAK                      | Sensitizing Substance Sah - Danger of airway & skin sensitization |                                                  |                                |
| GEN                                                              | MAK                      | Germ Cell Mutagen 3a                                              |                                                  |                                |



| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                   | NOTIFICATION                                                                                                                                           |
|---------------------|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Biological and Environmentally Released Materials |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Children's Products                               |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2024<br><br>Children's Toy Products                                      |

SUBSTANCE NOTES:

## CARBONIC ACID, MAGNESIUM SALT

ID: 7757-69-9

|                                                           |                      |                                                |                                           |                                     |
|-----------------------------------------------------------|----------------------|------------------------------------------------|-------------------------------------------|-------------------------------------|
| HAZARD DATA SOURCE: Pharos Chemical and Materials Library |                      |                                                | HAZARD SCREENING DATE: 2025-06-30 7:56:16 |                                     |
| 0.0000 - 0.0500                                           | GreenScreen: LT-UNK  | RC: None                                       | 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:

## ZIRCONIUM OXIDE (ZRO2)

ID: 1314-23-4

|                                                           |                      |                                                                                  |                                           |                           |
|-----------------------------------------------------------|----------------------|----------------------------------------------------------------------------------|-------------------------------------------|---------------------------|
| HAZARD DATA SOURCE: Pharos Chemical and Materials Library |                      |                                                                                  | HAZARD SCREENING DATE: 2025-06-30 7:56:19 |                           |
| 0.0000 - 0.0500                                           | GreenScreen: LT-P1   | RC: None                                                                         | NANO: No                                  | SUBSTANCE ROLE: Opacifier |
| HAZARD TYPE                                               | LIST NAME AND SOURCE | WARNINGS                                                                         |                                           |                           |
| CAN                                                       | MAK                  | Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels |                                           |                           |
| 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:



## SODIUM POLYACRYLATE

ID: 9003-04-7

|                                                                  |                            |                 |                                                                                                                                                           |                                   |
|------------------------------------------------------------------|----------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                            |                 | HAZARD SCREENING DATE: <b>2025-06-30 7:56:20</b>                                                                                                          |                                   |
| ?: <b>0.0000 - 0.0250</b>                                        | GreenScreen: <b>LT-UNK</b> | RC: <b>None</b> | NANO: <b>No</b>                                                                                                                                           | SUBSTANCE ROLE: <b>Dispersant</b> |
| HAZARD TYPE                                                      | LIST NAME AND SOURCE       |                 | WARNINGS                                                                                                                                                  |                                   |
| EYE                                                              | GHS - New Zealand          |                 | Eye irritation category 2                                                                                                                                 |                                   |
| CAN                                                              | GHS - Japan                |                 | H351 - Suspected of causing cancer [Carcinogenicity - Category 2]                                                                                         |                                   |
| 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:                                                 |                            |                 |                                                                                                                                                           |                                   |

## ZIRCON (ZR(SiO<sub>4</sub>))

ID: 14940-68-2

|                                                                  |                          |                 |                                                  |                                            |
|------------------------------------------------------------------|--------------------------|-----------------|--------------------------------------------------|--------------------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                          |                 | HAZARD SCREENING DATE: <b>2025-06-30 7:56:18</b> |                                            |
| ?: <b>0.0050 - 0.0200</b>                                        | GreenScreen: <b>BM-2</b> | RC: <b>None</b> | NANO: <b>No</b>                                  | SUBSTANCE ROLE: <b>Structure component</b> |
| 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:                                                 |                          |                 |                                                  |                                            |

## CALCIUM CARBONATE

ID: 1317-65-3

|                                                                  |                            |                 |                                                  |                                            |
|------------------------------------------------------------------|----------------------------|-----------------|--------------------------------------------------|--------------------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                            |                 | HAZARD SCREENING DATE: <b>2025-06-30 7:56:19</b> |                                            |
| ?: <b>0.0040 - 0.0200</b>                                        | GreenScreen: <b>BM-3dg</b> | RC: <b>None</b> | NANO: <b>No</b>                                  | SUBSTANCE ROLE: <b>Structure component</b> |
| 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:                                                 |                            |                 |                                                  |                                            |



SILICIC ACID, ALUMINUM CALCIUM SODIUM SALT

ID: 1344-01-0

HAZARD DATA SOURCE: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2025-06-30 7:56:16

?: 0.0000 - 0.0150

GreenScreen: LT-UNK

RC: None

NANO: No

SUBSTANCE ROLE: Impurity

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:



## 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

### UL/GreenGuard Gold Certified

CERTIFYING PARTY: Third Party  
APPLICABLE FACILITIES: All  
CERTIFICATE URL: [https://spot.ul.com/main-app/products/detail/5d38c6fd55b0e85910293aa6?page\\_type=Products%20Catalog#](https://spot.ul.com/main-app/products/detail/5d38c6fd55b0e85910293aa6?page_type=Products%20Catalog#)

ISSUE DATE: 2019-07-22 00:00:00  
EXPIRY DATE:

CERTIFIER OR LAB: UL

CERTIFICATION AND COMPLIANCE NOTES: While the URL points to a specific style, this certification covers all porcelain products produced by FlorimUSA.

### MULTI-ATTRIBUTE

### Green Squared Certification

CERTIFYING PARTY: Third Party  
APPLICABLE FACILITIES: All  
CERTIFICATE URL: [https://cdn.scs-certified.com/products/cert\\_pdfs/FlorimUSA\\_2020\\_SCS-GS-06515\\_s.pdf](https://cdn.scs-certified.com/products/cert_pdfs/FlorimUSA_2020_SCS-GS-06515_s.pdf)

ISSUE DATE: 2020-11-12 00:00:00  
EXPIRY DATE:

CERTIFIER OR LAB: SCS  
Global Services

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.

### GROUT

MANUFACTURER (OR GENERIC): **Generic**

HPD URL: No HPD Available

ACCESSORY TYPE: Installation Accessory

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: A minimum grout joint of 3/16 inches is recommended for all porcelain installations.

### MORTAR

MANUFACTURER (OR GENERIC): **Generic**

HPD URL: No HPD Available

ACCESSORY TYPE: Installation Accessory

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: Mortar, or other adhesive, is recommended for all installations.

## Section 5: General Notes

This HPD was built to cover all porcelain styles and colors, including alternative materials that are used depending on the specific color or specification requirement.



## Section 6: References

### MANUFACTURER INFORMATION

MANUFACTURER: **Florim USA**  
ADDRESS: **300 International Blvd**  
**Clarksville, TN 37040**  
COUNTRY: **United States**

WEBSITE: **<https://www.florim.com/en>**  
CONTACT NAME: **Don Haynes**  
TITLE: **Environmental, Health, Safety, and Sustainability Manager**  
PHONE: **931-553-7568**  
EMAIL: **DHaynes@FlorimUSA.com**

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

### KEY

#### Hazard Types

|                                       |                                                   |                                                      |
|---------------------------------------|---------------------------------------------------|------------------------------------------------------|
| <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

**PreC** Pre-consumer recycled content  
**PostC** Post-consumer recycled content  
**UNK** Inclusion of recycled content is unknown  
**None** Does not include recycled content

#### Other Terms:

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

#### Inventory Methods:

**Nested Method / Material Threshold** Substances listed within each material per threshold indicated per material  
**Nested Method / Product Threshold** Substances listed within each material per threshold indicated per product  
**Basic Method / Product Threshold** Substances listed individually per threshold indicated per product

**Nano** Composed of nano scale particles or nanotechnology

**Third Party Verified** Verification by independent certifier approved by HPDC

**Preparer** Third party preparer, if not self-prepared by manufacturer

**Applicable facilities** Manufacturing sites to which testing applies

*The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator™, and when available, full GreenScreen® assessments. The HPD Open Standard v2.1 is not:*

- a method for the assessment of exposure or risk associated with product handling or use,
- a method for assessing potential health impacts of: (i) substances used or created during the manufacturing process or (ii) substances created after the product is delivered for end use.

*Information about life cycle, exposure and/or risk assessments performed on the product may be reported by the manufacturer in appropriate Notes sections, and/or, where applicable, in the Certifications section.*

*The HPD Open Standard was created and is supported by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry that is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.*

*The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this HPD and for compliance with the HPD standard noted.*