Clayworks Smooth Clay Plasters
by Clayworks

HPD UNIQUE IDENTIFIER: (available when published)
CLASSIFICATION: 09 78 00 Interior Wall Paneling
PRODUCT DESCRIPTION: Clayworks Clay Plasters are natural and breathable interior wall finishes that can be used as a healthy and sustainable alternative to other plasters and paint. Naturally pigmented, they come in a wide range of colours and textures and are available worldwide.

Section 1: Summary

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
- Considered
- Partially Considered
- Not Considered

All Substances Above the Threshold Indicated Are:
- Characterized
  - Yes Ex/SC
  - Yes
  - No
- % weight and role provided for all substances except SC substances characterized according to SC guidance.
- Screened
  - Yes Ex/SC
  - Yes
  - No
- All substances screened using Priority Hazard Lists with results disclosed except SC substances screened according to SC guidance.
- Identified
  - Yes Ex/SC
  - Yes
  - No
- One or more substances not disclosed by Name (Specific or Generic) and Identifier and/or Special Condition did not follow guidance.

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

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

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

INVENTORY AND SCREENING NOTES:
Special conditions applied: GeologicalMaterial

[LEED v4] "Yes ex/SC" result is due only to materials and substances for which Special Conditions were applied. Thus "Yes ex/SC" does not disqualify the product for the LEED v4 Materials and Resources Disclosure and Optimization credit, Option 1.

Clayworks worked with the HPDC Approved Preparer to confirm that all intentionally added ingredients, residuals and impurities were considered under the preparation of this HPD. This was accomplished by obtaining full formulation disclosure, including residuals and impurities, down to the 1,000 ppm threshold.

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: Eurofins Confirmation LEEDv4 EQ - Low emitting products
- VOC content: EN 233:1999 - Wallcoverings in roll form - finished - BREEAM compliant
- LCA: Environmental Product Declaration (EPD)

CONSISTENCY WITH OTHER PROGRAMS
No pre-checks completed or disclosed.
### CLAYWORKS SMOOTH CLAY PLASTERS

**PRODUCT THRESHOLD:** 1000 ppm  
**RESIDUALS AND IMPURITIES CONSIDERED:** Yes

**RESIDUALS AND IMPURITIES NOTES:** Clayworks worked with the HPDC Approved Preparer to confirm that all residuals and impurities were considered under the preparation of this HPD. This was accomplished by obtaining full formulation disclosure, including residuals and impurities, down to the 1,000 ppm threshold.

**OTHER PRODUCT NOTES:**

<table>
<thead>
<tr>
<th>UNDISCLOSED</th>
<th>ID: Undisclosed</th>
</tr>
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</table>
| **HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2021-11-11 11:50:34 |
| **%:** 8.3045 - 9.7602  
**GS:** NoGS  
**RC:** None  
**NANO:** No  
**SUBSTANCE ROLE:** Structure component |
| **HAZARD TYPE:** None found  
**AGENCY AND LIST TITLES:**  
**WARNINGS:** No warnings found on HPD Priority Hazard Lists |
| **SUBSTANCE NOTES:** The HPDC Approved Preparer obtained full disclosure down to the 1,000 ppm threshold for the trade name ingredient containing this chemical. Due to the proprietary nature of the information, the name and CAS number for this chemical have been redacted from this substance. 2 |

<table>
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<tr>
<th>UNDISCLOSED</th>
<th>ID: Undisclosed</th>
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</thead>
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| **HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2021-11-09 10:59:41 |
| **%:** 5.9763 - 72.1289  
**GS:** BM-1  
**RC:** None  
**NANO:** No  
**SUBSTANCE ROLE:** Structure component |
| **HAZARD TYPE:**  
**AGENCY AND LIST TITLES:**  
**WARNINGS:** |
| **CAN** US CDC - Occupational Carcinogens  
Carcinogenic - specific to chemical form or exposure route |
| **CAN** CA EPA - Prop 65  
Known to be Human Carcinogen (respirable size - occupational setting) |
| **CAN** US NIH - Report on Carcinogens  
Mak  
IARC  
GHS - New Zealand  
GHS - Japan  
GHS - Australia |
| **CAN** IARC  
Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources  
Group 1 - Agent is Carcinogenic to humans  
6.7A - Known or presumed human carcinogens  
H350 - May cause cancer [Carcinogenicity - Category 1A]  
H350i - May cause cancer by inhalation [Carcinogenicity - Category 1A or 1B] |
<table>
<thead>
<tr>
<th>Substance</th>
<th>Notes</th>
<th>HAZARD SCREENING METHOD</th>
<th>HAZARD SCREENING DATE</th>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>SUBSTANCE ROLE</th>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
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<tbody>
<tr>
<td>KAOLIN</td>
<td></td>
<td>Pharo Chemical and Materials Library</td>
<td>2021-11-04 10:54:30</td>
<td>3.8300 - 3.8300</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Structure component</td>
<td>CAN</td>
<td>MAK</td>
<td>Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification</td>
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<tr>
<td>UNDISCLOSED</td>
<td></td>
<td>Pharo Chemical and Materials Library</td>
<td>2021-11-11 11:51:26</td>
<td>1.8042 - 1.9400</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Structure component</td>
<td>None found</td>
<td>No warnings found on HPD Priority Hazard Lists</td>
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<td>MAK</td>
<td>Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification</td>
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<td>Pharo Chemical and Materials Library</td>
<td>2021-11-11 11:54:44</td>
<td>0.4800 - 0.4800</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Structure component</td>
<td>RES</td>
<td>AOECC - Asthmagens</td>
<td>Asthmagen (Rs) - sensitizer-induced</td>
</tr>
</tbody>
</table>

SUBSTANCE NOTES: The GreenScreen® Benchmark assessment score of BM-1 was provided through the HPD 2.2 Builder Tool. This material serves as a component in the sand mixture and an impurity in other materials/minerals such as dolomite, feldspar, and kaolin.
SC:UNDISCLOSED
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: Not Screened

<table>
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<tr>
<th>%:</th>
<th>GS:</th>
<th>RC:</th>
<th>NANO:</th>
<th>SUBSTANCE ROLE</th>
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<tbody>
<tr>
<td>0.0098 - 1.4655</td>
<td>Not Screened</td>
<td>None</td>
<td>No</td>
<td>Structure component</td>
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</tbody>
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HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

SUBSTANCE NOTES:
Version: SCGeoMats/2019-06-20
Origin: England
Typical Composition: Silica and clay contaminants
Potential presence of toxic metals: This disclosure does not provide information on the potential presence of toxic metals.
Presence of Radioactive Elements: This disclosure does not provide radioactive elements which may be found in certain geological materials.

SC:BLENDED SAND
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: Not Screened

<table>
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<tr>
<th>%:</th>
<th>GS:</th>
<th>RC:</th>
<th>NANO:</th>
<th>SUBSTANCE ROLE</th>
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</thead>
<tbody>
<tr>
<td>0.0000 - 65.0000</td>
<td>Not Screened</td>
<td>None</td>
<td>No</td>
<td>Structure component</td>
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HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

SUBSTANCE NOTES:
Version: SCGeoMats/2019-06-20
Origin: United Kingdom
Typical Composition: Blend of Flint, Sandstone, Limestone, Slate, Granite
Potential presence of toxic metals: N/A
Presence of Radioactive Elements: N/A

UNDISCLOSED
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2021-11-11 11:55:43

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<tr>
<th>%:</th>
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<tr>
<td>0.0000 - 6.7716</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
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HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

RES
AOEC - Asthmagens
Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES: The HPDC Approved Preparer obtained full disclosure down to the 1,000 ppm threshold for the trade name ingredient containing this chemical. Due to the proprietary nature of the information, the name and CAS number for this chemical have been redacted from this substance.

SC:UNDISCLOSED
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: Not Screened

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<thead>
<tr>
<th>%:</th>
<th>GS:</th>
<th>RC:</th>
<th>NANO:</th>
<th>SUBSTANCE ROLE</th>
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</thead>
<tbody>
<tr>
<td>0.0000 - 4.7900</td>
<td>Not Screened</td>
<td>None</td>
<td>No</td>
<td>Structure component</td>
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HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

Hazard Screening not performed
SUBSTANCE NOTES:
Version: SCGeoMats/2019-06-20
Origin: England
Typical Composition: Up to 100% Hydrous Aluminium Silicate
Potential presence of toxic metals: This disclosure does not provide information on the potential presence of toxic metals.
Presence of Radioactive Elements: This disclosure does not provide radioactive elements which may be found in certain geological materials.
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

<table>
<thead>
<tr>
<th>CERTIFYING PARTY:</th>
<th>Eurofins Confirmation LEEDv4 EQ - Low emitting products</th>
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<tbody>
<tr>
<td>CERTIFICATE URL:</td>
<td></td>
</tr>
<tr>
<td>ISSUE DATE:</td>
<td>2021-10-29</td>
</tr>
<tr>
<td>EXPIRY DATE:</td>
<td></td>
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<tr>
<td>CERTIFIER OR LAB:</td>
<td>Eurofins</td>
</tr>
<tr>
<td>APPLICABLE FACILITIES:</td>
<td>All Facilities</td>
</tr>
<tr>
<td>CERTIFICATION AND COMPLIANCE NOTES:</td>
<td>The requirements of LEED v4 and LEED v4.1 BETA (February 2021): CDPH-IAQ (California Department of Public Health (CDPH) Standard Method v1.2-2017); and a TVOC below 0.5 mg/m³ in both office and classroom.</td>
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</tbody>
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VOC CONTENT

<table>
<thead>
<tr>
<th>CERTIFYING PARTY:</th>
<th>EN 233:1999 - Wallcoverings in roll form - finished - BREEAM compliant</th>
</tr>
</thead>
<tbody>
<tr>
<td>CERTIFICATE URL:</td>
<td></td>
</tr>
<tr>
<td>ISSUE DATE:</td>
<td>2021-10-29</td>
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<td>EXPIRY DATE:</td>
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<td>CERTIFIER OR LAB:</td>
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<td>APPLICABLE FACILITIES:</td>
<td>All Facilities</td>
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</table>

LCA

<table>
<thead>
<tr>
<th>CERTIFYING PARTY:</th>
<th>Environmental Product Declaration (EPD)</th>
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<tbody>
<tr>
<td>CERTIFICATE URL:</td>
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<td>ISSUE DATE:</td>
<td>2020-09-11</td>
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<td>CERTIFIER OR LAB:</td>
<td>EPD International AB</td>
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<tr>
<td>APPLICABLE FACILITIES:</td>
<td>All Facilities</td>
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</tbody>
</table>

Section 4: Accessories

This section lists related products or materials that the manufacturer requires or recommends for installation (such as adhesives or fasteners), maintenance, cleaning, or operations. For information relating to the contents of these related products, refer to their applicable Health Product Declarations, if available.

No accessories are required for this product.

Section 5: General Notes

Clayworks worked with the HPDC Approved Preparer to confirm that all intentionally added ingredients, residuals and impurities were considered under the preparation of this HPD. This was accomplished by obtaining full formulation disclosure, including residuals and impurities, down to the 1,000 ppm threshold.
### MANUFACTURER INFORMATION

<table>
<thead>
<tr>
<th>MANUFACTURER: Clayworks</th>
<th>CONTACT NAME: Clare Whitney</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADDRESS: Higher Bochym Rural Workshops Cury Cross Lanes Unit 5 Helston Cornwall TR12 7AZ, UK</td>
<td>TITLE: Sustainability Manager</td>
</tr>
<tr>
<td>WEBSITE: <a href="https://clay-works.com/wp-content/uploads/2021/05/clayworks_environmental_product_declaration.pdf">https://clay-works.com/wp-content/uploads/2021/05/clayworks_environmental_product_declaration.pdf</a></td>
<td>PHONE: 44 (0)1326 341339</td>
</tr>
<tr>
<td></td>
<td>EMAIL: <a href="mailto:clare@clay-works.com">clare@clay-works.com</a></td>
</tr>
</tbody>
</table>

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

### KEY

**Hazard Types**

- AQU Aquatic toxicity
- CAN Cancer
- DEV Developmental toxicity
- END Endocrine activity
- EYE Eye irritation/corrosivity
- GEN Gene mutation
- GLO Global warming
- LAN Land toxicity
- MAM Mammalian/systemic/organ toxicity
- MUL Multiple
- NEU Neurotoxicity
- NF Not found on Priority Hazard Lists
- OZO Ozone depletion
- PBT Persistent, bioaccumulative, and toxic
- PHY Physical hazard (flammable or reactive)
- REP Reproductive
- RES Respiratory sensitization
- SKI Skin sensitization/irritation/corrosivity
- UNK Unknown

**GreenScreen (GS)**

- BM-4 Benchmark 4 (prefer-safer chemical)
- BM-3 Benchmark 3 (use but still opportunity for improvement)
- BM-2 Benchmark 2 (use but search for safer substitutes)
- BM-1 Benchmark 1 (avoid - chemical of high concern)
- BM-U Benchmark Unspecified (due to insufficient data)
- LT-P1 List Translator Possible 1 (Possible Benchmark-1)
- LT-1 List Translator 1 (Likely Benchmark-1)
- LT-UNK List Translator Benchmark Unknown (the chemical is present on at least one GreenScreen Specified List, but the information contained within the list did not result in a clear mapping to a LT-1 or LTP1 score.)
- NoGS No GreenScreen.

**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

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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.