

Certificate of Analysis

➤ Product data:

Product name: French Green Clay Ultra Ventilated
Product reference: CLAYFRENGREE
Batch number: 4344803
Best Before End: December 2022

➤ Analysis of the batch :

| | Results | Specifications | Method |
|--|---------|---------------------------|---|
| Physico-chemical analysis | | | |
| Aspect | CONFORM | Beige-green powder | <i>Visual check (compared with a sample test).</i> |
| Odour | CONFORM | None | <i>Smell check (compared with a sample test).</i> |
| Humidity | 3,76% | < 8% | <i>Test performed with an Halogen Moisture Analyser METTLER TOLEDO.</i> |
| pH | 8,95 | 8 - 9 | <i>NF EN ISO 787-9 T31-235</i> |
| Grain sizes | CONFORM | 90%<20µm and 100%<40µm | <i>Test performed with a Mastersizer 2000 (MALVERN) particle size analyzer.</i> |
| Guaranteed heavy metals | | | |
| Lead (Pb) | CONFORM | < 20 ppm | <i>Mineralization according to EN15510. Internal method spectrometry A.A. IN 020 20 (Perkin Elmer PinAAcle 900T).</i> |
| Arsenic (As) | CONFORM | < 15 ppm | |
| Cadmium (Cd) | CONFORM | < 0,2 ppm | |
| Mercury (Hg) | CONFORM | < 0,05 ppm | |
| Guaranteed microbiological quality | | | |
| <i>Ingredient classified in category 2 (according to the notice of the scientific committee of the EU cosmetics products dated 09/23/1998)</i> | | | |
| DGAT | CONFORM | < 1000 CFU/g - [CAT 2] | <i>NF EN ISO 21149</i> |
| DMLT | CONFORM | < 100 CFU/g - [CAT 2] | <i>NF EN ISO 16 212</i> |
| Pseudomonas aeruginosa | CONFORM | NONE | <i>NF EN ISO 21148 and 22717</i> |
| Staphylococcus aureus | CONFORM | NONE | <i>NF EN ISO 21148 and 22718</i> |
| Candida albicans | CONFORM | NONE | <i>NF EN ISO 21148 and 18416</i> |

➤ Final check :

| | | |
|----------------|---|--|
| Of the goods | } | <input checked="" type="checkbox"/> Quantities |
| | | <input checked="" type="checkbox"/> References |
| Of the pallets | } | <input checked="" type="checkbox"/> Quality |
| | | <input checked="" type="checkbox"/> Protection |
| | | <input checked="" type="checkbox"/> General Aspect |

- The batch meets specifications. Product is released.
 The batch doesn't meet specifications. But the product is released with the agreement of the customer.

The Quality Service

GLOBAL MANUFACTURING FLOW CHART **French Green Clay Ultra Ventilated**



Manufacturing Process & Risk Assessment Specifications

DETAILING OUR MANUFACTURING PROCESS





SAFETY DATA SHEET

In compliance with appendix II of Regulation (CE) n°1907/2006 (REACH), Regulation (CE) n° 1272/2008, and Regulation (CE) n°453/2010.

1. Identification of the substance and the company:**1.1 Product identifier****Product name:****Green Ultra Ventilated French Clay****Product code:**

CLAYFRENGREE

Chemical name:

Clay mainly composed of illite, kaolin and montmorillonite.

Synonyms:

None.

CAS:

12173-60-3 (Illite), 1332-58-7 (kaolin), 1318-93-0 (Montmorillonite).

REACH registration number: the substance is exempt in compliance with appendix V, chapter 7, of Regulation (CE) n° 1907/2006 (REACH) – (substance that can be found in nature / chemically non-modified substance).

1.2 Relevant identified uses of the substance and uses advised against

Use of the substance (this list is not exhaustive): Ingredient for the cosmetic, pharmaceutical industries and clay therapy.

Relevant identified uses: Industrial, professional and individual uses.

Uses advised against: None.

1.3 Details of the supplier of the safety data sheet**Identification of the company:**

MADAR Corporation Limited

19-20 Sandleheath Industrial Estate, Fordingbridge, Hampshire, SP6 1PA

Tel. + 44 (0)1425 655555 | E-mail: sales@madarcorporation.co.uk

Approved Sellers: Cosmetic Butters, Mystic Moments, New Directions, World of Moulds

1.4 Emergency telephone number

European emergency number: 112

2. Hazards identification:**2.1 Classification of the substance****2.1.1 Classification according to the Regulation (CE) N° 1272/2008 (CLP)**

The substance is not classified as hazardous according to Regulation (CE) 1272/2008.

2.1.2 Classification according to the directive 67/548/CEE

The substance is not classified as hazardous according to the EU directive N°67/548/CEE.

2.1.3 Additional, national or regional information

None.

2.2 Label elements**2.2.1 Classification according to the Regulation (CE) N°1272/2008 (CLP)**

Not applicable. The substance is not classified as hazardous according to Regulation (CE) 1272/2008.

2.2.2 Classification according to the directive 67/548/CEE

Not applicable. The substance is not classified as hazardous according to the EU directive N°67/548/CEE.

2.3 Other hazards

The components do not meet the criteria for classification as PBT and/or vPvB found in the list of the appendix XIII of Regulation N° 1907/2006. This product is not classified as hazardous. It doesn't represent a risk to health or the environment under current legislation. Dust airborne may be possible. Its quantity may be more or less important according to the grain size of the product.

3. Composition/information on ingredients:**3.1 Substances**

Note: The substance described below is neither a mixture nor a multi-constituent substance (result of a manufacturing process).

It is composed of natural clay.

| CAS | REACH Registration number | Product name | Classification in compliance with the directive 67/548/CEE | Classification in compliance with the Regulation (CE) N° 1272/2008 | Mass percentage |
|---------|---------------------------|------------------------------------|--|--|-----------------|
| See 1.1 | Exempt (see 1.1) | Green Ultra Ventilated French Clay | Unclassified | Unclassified | 100% |

3.2 Mixture

Not applicable.

4. First aid measures:

4.1 Description of first aid measures

General information: Have product container, label elements and Safety Data Sheet at hand if medical advice is needed.

After inhalation: The person should be taken outside into the open air, away from dust. Get medical attention if symptoms occur.

After skin contact: If symptoms occur, rinse cautiously with water for several minutes. Get medical attention if symptoms persist.

After eye contact: Rinse cautiously with water for several minutes. Get medical attention if symptoms persist.

After ingestion: Get medical attention if symptoms persist. Do not induce vomiting without medical attention.

Self-protection of the first aider: No specific care.

4.2 Most important symptoms and effects, both acute and delayed

An excessive production of dust may cause slight irritation of the eyes and respiratory tract. No delayed effect has been recorded.

4.3 Indication of immediate medical attention and specific treatment needed

None. See above 4.1.

5. Firefighting measures:

5.1 Extinguishing materials

This product is non-inflammable and non-explosive. No specific firefighting measure is required. No unsuitable extinguishing materials.

5.2 Special hazards arising from substance

None.

5.3 Advice for firefighters

No specific care is recommended.

6. Accidental release measures:

6.1 Personal precautions, protective equipment and emergency procedures

To non-firefighters and firefighters (Applicable if important and slightly important release)

Avoid dust formation. Avoid inhaling dust. In case of dust formation, wear an anti-dust mask - type FFP3.

6.2 Environmental precautions

No specific precaution. See environmental information section 12.

6.3 Methods and materials for containment and cleaning up

Hoover the spilled product (to avoid raising dust). Avoid moistening the product (wet clay can be slippery). Deal with the recovered product as indicated in section 13. Keep in sealed containers.

6.4 Reference to other sections

See sections 8 and 13 for other information.

7. Handling and storage:

7.1 Precautions for safe handling

7.1.1 Technical measures:

Reduce as much as possible dust formation and use adequate ventilation system. If the ventilation system of the premises is not sufficient, wear a respiratory gear type FFP3. Avoid eye contact. The product can be slippery when wet. The product is non-inflammable, no specific firefighting measure is recommended. Minimize environmental release, using filters for ventilation systems for example.

7.1.2 Advice on general occupational hygiene

Do not eat, drink, and smoke in working areas. Wash your hands after every use. Remove soiled clothes and protective equipment before getting into a catering area.

7.2 Conditions for safe storage, including any compatibilities

Keep the product in its closed container in a dry and well-ventilated area. Keep the container closed to avoid dust formation.

7.3 Specific final use

If you need more details for uses mentioned in section 1.2, contact your supplier. If you need advice for specific uses of the product, contact your supplier.

8. Exposure control and personal protection:

8.1 Control parameters

8.1.1 Occupational exposure limits:

Argile verte du Velay / Velay green clay is considered as dust with no specific effect.

In compliance with appendix II of Regulation (CE) n°1907/2006 (REACH), Regulation (CE) n° 1272/2008, and Regulation (CE) n°453/2010.

| Components | Exposure limits | | Type of value | Source |
|------------------------------------|---|---|---------------|--|
| Green Ultra Ventilated French Clay | 10 mg/m ³ (inhalable fraction) | 5 mg/m ³ (alveolar fraction) | VME -8h | French Ministry of Labour - Circular issued by the French Ministry of Labour on May 09 th 1985. |

For occupational limit values applicable in other countries, please refer to local Regulations.

8.1.2 Biological limit values

Non applicable.

8.1.3 Recommended follow-up procedures

In order to monitor individual and environmental exposures, the recommended methods are described below:

- A decree issued on December 15th 2009 related to technical controls of occupational limit values at work and to certification standards of control agencies.
- Circular DGT N°2010-03 issued on April 13th 2010 related to chemical risk control measures at work

These standards are applied in France. If you are located in another European country or outside the EU, refer to the competent authorities.

8.1.4 Professional exposure limits and/ or biological limit values of air contaminants

Non applicable.

8.1.5 DNEL/PNEC values

No available DNEL or PNEC values: the substance is exempt in compliance with Appendix V, chapter 7, of the Regulation (CE) n° 1907/2006 (REACH) – (substance that can be found in nature / not chemically modified substance), and was therefore not assessed further with chemical security.

8.2 Exposure controls

8.2.1 Appropriate technical controls

Avoid producing dust airborne.

Opt for collective protective equipment in order to avoid creating dust: use closed processes, a well-adapted exhaust ventilation or any other process that can keep airborne concentrations below the specified exposure limits. Organizational measures can be taken such as isolating staff from dusty areas for example.

8.2.2 Individual protection measures, such as personal protective equipment

A – Face and eye protection: Wear safety glasses if airborne dust generation.

B – Skin protection: Wearing gloves is advised.

C - Respiratory protection: Wear a respiratory equipment type FFP3 if airborne dust is generated.

D- Thermal dangers: Non applicable.

8.2.3 Environmental measures

In case of accidental spillage, refer to section 6.

In case of abnormal use of the product, follow the following instructions: Remove the product or the rinsing water in compliance with local and national rules.

9. Physico-chemical properties:

9.1 Information on main physical and chemical properties

| Features | Data | Methods |
|--|-------------------|--|
| Physical state | Solid | |
| Appearance | Powder | |
| Colour | Beige / green | |
| Odour | Odourless | |
| Odour threshold | Non applicable | |
| pH | Between 8 and 9.5 | Measure carried out in compliance with method: NF EN ISO 787-9 T31-235 and pH-measure. |
| Melting point | Non applicable | |
| Freezing point | Non applicable | |
| Boiling point | Non applicable | |
| Flash point | Non applicable | |
| Evaporation rate | Non applicable | |
| Features | Data | Methods |
| Inflammability | Non inflammable | |
| Upper/lower flammability or explosive limits | Non applicable | |

| | | |
|---------------------------------------|--|---|
| Vapour pressure | Non applicable | |
| Vapour density | Non applicable | |
| Relative density | From 0.4 to 0.95 according to grain size | Measure carried out in compliance with the bulk density method: NF T 73-405 (March 1982) or a method from the international norm OCDE 109 (bulk density). |
| Solubility in water | Insoluble | |
| Partition coefficient n-octanol/water | Non applicable | |
| Auto-ignition temperature | Non applicable | |
| Decomposition temperature | No data available | |
| Viscosity | Non applicable | |
| Explosive properties | Non explosive | |
| Oxidising properties | Non oxidising | |

9.2 Other information

None.

10. Stability and reactivity:

10.1 Reactivity

The product is stable and inert.

10.2 Chemical stability

The product is stable.

10.3 Possibility of hazardous reactions

None identified.

10.4 Conditions to be avoided

None identified.

10.5 Incompatible materials

No incompatible materials identified.

10.6 Hazardous decomposition product

No hazardous decomposition product identified.

11. Toxicological information:

11.1 Information on toxicological effects

These tests were carried out before the restriction date on animal testing on 11/03/2009 (Regulation (CE) N° 1223/2009).

| TESTS | OCDE N° | Results | Species | Duration of the study | Classification |
|---|---------|--|---------------|--|--|
| Acute oral toxicity study | 423 | LD ₅₀ =5000mg/kg | Rat | 3 hours | Category 5 or unclassified => non toxic |
| Acute dermal toxicity study | 402 | LD ₅₀ >2000mg/kg | Rat | 14 days of study. | Category 5 => non toxic |
| Acute inhalation toxicity study | 403 | LD ₅₀ between 2000 and 5000 mg/kg and LC ₅₀ =3,856mg/L | Rat | Exposure: 4 hours during 14 observation days | Category 5 or unclassified =>non toxic |
| Acute dermal irritation study | 404 | Not irritating | Rabbit | 72 hours after releasing the substance | Unclassified => Non irritating |
| Acute eye irritation study | 405 | Not irritating | Rabbit | 72 hours after instillation | Unclassified => Non irritating |
| Skin sensitisation study | 406 | Negative | Guinea pig | 48 hours after releasing the substance. | Negative |
| In vitro mammalian chromosome aberration test | 473 | Do not provoke mammalian chromosome aberrations. | In vitro test | 21 hours of exposure | Do not provoke mammalian chromosome aberrations. |

| TESTS | OCDE N° | Results | Species | Duration of the study | Classification |
|--|---|---------|------------------------------|-----------------------|----------------|
| Reverse mutation bacterial test | 471 | - | Salmonella typhimurium train | 48 hours | Negative |
| Reproduction toxicity | Is not classified as hazardous. (No specific data). Natural product. | | | | |
| Gem cell mutagenicity | Is not classified as hazardous. (No specific data). Natural product. | | | | |
| Specific target organ toxicity – single exposure | Is not classified as hazardous. (No specific data). Natural product. | | | | |
| Specific target organ toxicity – repeated exposure | Is not classified as hazardous. (No specific data). Natural product. | | | | |
| Aspiration toxicity hazard | Is not classified as hazardous. (No specific data). Natural product. | | | | |

12. Ecological information:

12.1 Toxicity

These tests were carried out before the restriction date on animal testing on 11/03/2009 (Regulation (CE) N° 1223/2009).

| TESTS | OCDE N° | Results | Species | Medium | Testing time | Classification |
|---|---------|--|---|---------------------|--------------|---------------------------|
| Acute aquatic toxicity test | 203 | NOEC > 100mg/L LC ₅₀ > 100mg/L | Brachidanio rerio | Aquatic environment | 96 hours | Safe for the environment. |
| Algal growth inhibition test | 201 | NOEC > 100mg/L | Desmodesmus subspicatus | Aquatic environment | 72 hours | Safe for the environment. |
| Acute immobilisation test | 202 | EC ₅₀ > 100 mg/L | Daphnia magna | Aquatic environment | 48 hours | Safe for the environment. |
| Oral acute toxicity test (side effects) | 213 | LC ₅₀ > 100µg/subject | Apis mellifera mellifera L. (Hymenoptera: apidae) | - | 48 hours | Safe for the environment. |
| Dermal acute toxicity test (side effects) | 214 | LC ₅₀ > 100µg/subject | Apis mellifera mellifera L. (Hymenoptera: apidae) | - | 48 hours | Safe for the environment. |

12.2 Persistence and degradability

Stable and non-biodegradable product (inorganic product).

12.3 Bioaccumulative persistence

Non applicable (inorganic product).

12.4 Mobility in soil

No specific data.

12.5 Results of PBT and vPvB assessments

Do not meet the criteria for classification as PBT and/or vPvB found in the list of Appendix XIII of Regulation N° 1907/2006 (inorganic product)

12.6 Other adverse effects

None has been reported.

13. Disposal considerations:

13.1 Waste treatment method

Substance treatment: Waste must be discharged in compliance with local, national regulations and with applicable European standards and guidelines. Waste can be landfilled in compliance with local regulations. Do not dispose of waste into the drains.

Container treatment: Empty the container. Remove and sort out the product.

14. Transport information:

14.1 UN number: Not listed.

14.2 UN proper shipping name: No data available.

14.3 Transport hazard group: Unclassified.

In compliance with appendix II of Regulation (CE) n°1907/2006 (REACH), Regulation (CE) n° 1272/2008, and Regulation (CE) n°453/2010.

14.4 Packing group: Not concerned.

14.5 Environmental hazards: None.

14.6 Special precautions for user: See section 7.1.1. Follow the same instructions as when handling the product.

14.7 Transport in bulk according to appendix II of MARPOL 73/78 and the IBC code: Not concerned.

15. Regulatory information:

15.1 Safety, health and environmental Regulations / legislations specific for the substance or mixture

15.1.1. EU Regulations

The substance is exempt in compliance with Appendix V, chapter 7, of Regulation (CE) n° 1907/2006 (REACH) – (substance that can be found in nature / chemically non-modified substance). The substance is not labeled in compliance with Regulation (CE) N° 1272/2008 and UE Regulation.

15.1.2. National directives – France

No additional information.

15.2 Chemical security assessment

Green Ultra Ventilated French Clay is exempt from REACH registration. No chemical security assessment was carried out for this substance.

16. Other information :

16.1 Version

Version number: 9

Reason for updating the earlier version: spelling and grammar mistakes. This version supersedes all previous versions.

16.2 Meanings of abbreviations and acronyms

| | |
|--------------------|--|
| DNEL = | Derived No-Effect Level |
| EC ₅₀ = | Effective Concentration 50 % |
| LC ₅₀ = | Lethal Concentration 50 % |
| DC ₅₀ = | Lethal Dose 50 % |
| NOEC = | No-Observed Effect Concentration |
| PBT = | Persistent Bioaccumulative Toxic |
| PNEC = | Predicted No-Effect Concentration |
| SDS = | Safety Data Sheet |
| vPvB = | Very Persistent Substance Very Bioaccumulative |

16.3 Bibliographic references

<http://echa.europa.eu/>

Manufacturer disclaimer

The information given within this SDS is correct to the best of our knowledge, information and belief at the date of its revision and publication. However, the manufacturer makes no representation, warranty or guarantee as to its accuracy, reliability or completeness, nor assumes any liability. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For these and other reasons, we assume no responsibility for any loss, damage or expense caused by or in any way with the handling, storage, use or disposal. This SDS was written for this product only and should be used only for this product. If the product is used as a component of another product, the information may not be applicable.



DECLARATION

To meet specifications of the cosmetic regulation

French Green Clay - Ultra Ventilated

We certify that the above product is:

- C.M.R free,
- **Gluten free,**
- **Allergen free,**
- **Bisphenol free,**
- **Lactose free,**
- **Ethanol and Methanol free,**
- **Palm oil free,**
- **Latex free,**
- **Phthalate free,**
- **Waste solvents free,**
- **Phenoxyethanol free,**
- **BSE (bovine spongiform encephalopathy) free**
- **TSE (Transmissible Spongiform Encephalopathies) free**
- **GMO free,**
- **Not tested on the animals,**
- **Don't contain nano-materials, [according to the regulations: 1223/2009 and the French decree 2012-232](#)**
- **Didn't undergo any irradiation or chemical treatment.**
- **Crystalline Silica Free,**
- **Suitable for Vegans**

INFORMATION ON THE INGREDIENT

Trade name: Green Ultra Ventilated French Clay
Product reference: CLAYFRENGREE
Composition: 100% natural mineral product
Origin of the ingredient: France

Description of the manufacturing process:

This Green clay undergoes a mechanical treatment, without any chemical process. It is crushed and dried at 350°C during 20 mins. Powder grains are then sorted thanks to an innovative and sophisticated process: a selection by induction.

FEATURES OF THE INGREDIENT

INCI*: Illite: 75% ± 10 Kaolin: 19% ± 5 Montmorillonite: 6% ± 3
CAS N°: 12173-60-3 1332-58-7 1318-93-0

**The INCI composition above, includes a portion of non-clay minerals.*

Mineralogy: This clay is very pure: more than 80 % of clay
This clay doesn't contain quartz

Impurities: Monitoring controls carried out by a laboratory providing COFRAC results
 Traces of heavy metals naturally occur in clays
They are permitted by CE regulation because they are technically unavoidable
Mineralization according to EN15510
Internal method spectrometry A.A. IN 020 20 (Perkin Elmer PinAAcle 900T)
 Levels of dioxins and PCBs controlled are near zero

SPECIFICATIONS OF THE INGREDIENT

| Physico-chemical analysis | | | |
|---|---|---------------------------|--------------------|
| Humidity (<i>humidimeter METTLER TOLEDO</i>) | < 8 % | Aspect | Beige-green powder |
| pH (<i>method NF EN ISO 787-9 T31-235</i>) | 8 – 9 | Odour | None |
| Grain sizes (<i>granulometer Mastersizer 2000 Malvern</i>) | Ultra: 90%<20µm / 100%<40µm and Superfine : 90%<77µm / 100%<100µm | | |
| Microbiological analysis | | | |
| Ingredient classified in category 1 or 2 (<i>according to the notice of the scientific committee of the EU cosmetic products of 09/23/1998</i>) | | | |
| | Specifications category 2 | Specifications category 1 | |
| Mesophilic aerobic bacteria DGAT (<i>NF EN ISO 21149</i>) | < 1000 CFU/g | < 100 CFU/g | |
| Yeasts and molds DMLT (<i>NF EN ISO 16212</i>) | < 100 CFU/g | < 10 CFU/g | |
| Pseudomonas aeruginosa, Staphylococcus aureus and Candida albicans (<i>NF EN ISO 21148, 18416, 21150, 22718, 22717</i>) | NONE | NONE | |

If not specified, please note that our price offers are automatically CAT 2 clays. Cotations for CAT 1* clays are available upon request (no irradiation) and should be mentioned in the price offer. *Our thermal treatment is 100% natural.

REGULATORY INFORMATION

Product not concerned by REACH
C.M.R. substances: None Allergenic substances: None
Nanomaterials: None E.S.B., G.M.O, C.O.V.: Not applicable to minerals
Ingredient not tested on animals

TOXICOLOGICAL AND ECOLOGICAL INFORMATION

For this section, please refer to the MSDS

PRESERVATION, PACKAGING, STORAGE

Preservation: 1 year after opening
Microbiology: 12-month guarantee after picking for category 2, 6-month guarantee after picking for category 1
This ingredient is sold in bags and/or big bags
Store in a dry, well-ventilated and free from any microbiological contamination place