



TECHNICAL FILE RED MONTMORILLONITE CLAY

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NATURAL
INGREDIENTS



NO
IONIZATION



NOT TESTED
ON ANIMALS



WITHOUT ARTIFICIAL
COLOURING



NO SYNTHETIC
PRESERVATIVES



A. INFORMATIONS

A.1. MAJORITIES

Origin

The quarry is situated in SARDINIA in the town of VILLANOVA TULO. It has a surface area of 240 hectares and its main activity is the extraction of Montmorillonite for industrial use. Its most important characteristic is the presence of very pure montmorillonite (more than 85% of the total mineral). There are even some seams to be found with an excellent purity of up to 75 %.

Extraction

Firstly the products destined for the pharmaceutical industry or similar uses are detected in the quarry by series of core boring, thus allowing us to determine the seams which meet the desired norms.

The core boring is carried out at one metre intervals over a length of face of generally 25 metres, for an extraction of 250 tonnes. The average height is 3 to 4 metres, the thickness 2 to 3 metres.

The mineral is extracted by means of digging and the required quantity is immediately taken away and stored under shelter.

Treatment

On extraction the clay comes in the form of semi-humid blocks (25% on average), sized between 2 and 30 cm. It has to be crushed in order to be dried properly. Drying takes place in a rotational tempered steel dryer heated by gas. There is a simultaneous current of air so that the temperature does not surpass 100°C. The material is then ground on Forplex equipment, comprising an F3 grinder and an SD3 dynamic selector. We can add besides that the drying process we have developed guarantees the bacteriological cleanliness of the clay we treat.

Controls

- X diffraction to identify the clay which is to be treated.
- Capacity for ionic exchange to check the richness in montmorillonite.
- Level of lead and heavy metals.
- A bacteriological control of each lot.
- A physico-chemical control.

Our technical sheets take into account all these analyses and naturally a product which does not comply with our demands is rejected.



Argiles du Bassin Méditerranéen

MONTMORILLONITES • SMECTITES • KAOLINITES

A.2. SCIENTIFIC DATA

I. Identification

| | |
|-----------------------------|---|
| SUPPLIER | Argiles du Bassin Méditerranéen |
| PRODUCT NAME | Red Montmorillonite Clay |
| INCI NAME | Montmorillonite |
| COMPOSITION | (Na, Ca)O _{0,33} (Al, Mg) ₂ Si ₄ O ₁₀ (OH) ₂ , nH ₂ O |
| INCI US NAME | Montmorillonite |
| N°CAS | 1318-93-0 |
| N° EINECS | 215-288-5 |
| NOMENCLATURE CUSTOMS | 2508400000 |
| AUTHORIZATION IN BIO MARKET | yes, 100% Natural product, certified ECOCERT |
| ORIGIN | Mineral |
| STORAGE CONDITIONS | Dry, -10°C to 40 °C |
| LIFE | Not concerned |
| PRODUCT TESTED ON ANIMALS | No |
| PACKAGING | 28 Liters, 25 Kg net, 25.5 Kg gross |
| CONTAINING | Kraft Bags, 2 valves |

II. Technical Data Sheet

INCI Name : MONTMORILLONITE
 Trademark : Montmorillonite
 N° CAS : 1318-93-0
 EINECS : 215-288-5
 (Na, Ca)O_{0,33} (Al, Mg)₂ Si₄ O₁₀ (OH)₂, nH₂O

| | ASPECT | COLOUR | ODOUR | DENSITY | C.E.G |
|--------|--------------------|--------------|-------|---------------|---------------|
| RESULT | Fine powder < 77µm | Red | No | 0,7 to 0,8 | 59.5 Meq |
| METHOD | Sieving | Ref. Pantone | Human | Weight/volume | Diffraction X |

Argiles du Bassin Méditerranéen
 S.A.R.L au capital de 7 622€
 N° SIRET : 412 481 970 000 17
 N° TVA Intercommunautaire : FR 44412481970
 Code APE : 523E

Z.A Le Bas Jasson
 985 Chemin du Puits de la Commune
 83250 LA LONDE-LES-MAURES - FRANCE
 Tel : 04.94.66.62.94 | Fax : 04.94.66.67.94
 argiles.abm@gmail.com | www.argiles-abm.com



Argiles du Bassin Méditerranéen

MONTMORILLONITES • SMECTITES • KAOLINITES

| CHEMICAL ANALYSIS | PERCENTAGES |
|--------------------------------|-------------|
| SiO ₂ | 50.27 |
| AL ₂ O ₃ | 18.81 |
| Fe ₂ O ₃ | 7.40 |
| MgO | 3.40 |
| K ₂ O | 2.23 |
| Na ₂ O | 0.02 |
| TiO ₂ | 0.68 |
| CaO | 1.30 |
| MnO | 0.03 |
| P ₂ O ₅ | 0.04 |

Type of clay : Natural Silicate of aluminium and both, Iron and Magnesium
Major Constituent : Smectite (Montmorillonite) > 75 %
Presentation (dry) : RED Clay Powder
Cation exchange Capacity (C.E.C) : > 59.5 Meq per 100 g
Loss of Ignition (1000°C) : 15.83 %

ADVISORY

Our technicals informations are communicated at best by our knowledge. They establish simple indications and present results of analyses (microbiology, heavy metals, etc.) which can be incomplete according to the use you have and cannot engage our responsibility, do not exempt you from the necessity of verifying yourself if the delivered products answer the standards, the obligations and the goal needed.

Our advices in materials of safety does not exempt you of determining yourself security measures adapted to the conditions appropriate to your exploitation which we cannot plan, and specially watch the technical qualification and the information of the people called to use, to treat or to be in touch with him.



A.3. DATA OF SAFETY

1. Identification of the product and of the company

Harmless product

Trademark: : RED Clay Montmorillonite
Use : Para pharmaceuticals, cosmetics, food complements
The company : ARGILES DU BASSIN MEDITERRANEEN
Z.A. du Bas JASSON
83250 LA LONDE
Phone number : 00.33.(0)4.94.66.62.94.
Fax number : 00.33.(0)4.94.66.67.94.

2. Composition and information on the product

Nature of the product : Raw material : 100% natural
INCI name : MONTMORILLONITE
CAS number : 1318-93-0
EINECS : 215-288-5
Formula : $(Na, Ca)_{0,33} (Al, Mg)_2 Si_4 O_{10} (OH)_2, nH_2O$

3. Identification of dangers and first aid measures

Harmless product

If contact with skin : Remove contaminated clothing, rinse with water (or soap and water)

If contact with the eyes : Flush thoroughly with water for at least 10 minutes. Seek medical attention if irritation marks appear.

If accidental ingestion : Drink water

If fulsome inhalation : Take the person to the closest source of fresh air and look after that person.

General comment : Clay is not a dangerous product, however if a consequential intoxication occurs, getting medical attention becomes crucial.

4. Protection measures against fire

Clay is not inflammable, however the container is made with paper. Therefore, use an appropriate fire-extinguisher if needed. (use a water spray extinguisher).

5. Measures to take in the case of an accidental spill

Individual precaution : avoid contact with the eyes.



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Precaution to protect the environment : Avoid to spill in the sewer, in the ground or in any aquatic surroundings.

Cleaning methods : Use a broom or a vacuum.

6. Handling and storage

Handling : Avoid contact with the eyes. Follow the usual hygiene rules. Keep rooms well aired out.

Storage : It is recommended to store the clay in closed wooden barrels, preferably filled up and sheltered away from extreme temperatures and humidity.

7. Exposure control/individual protection

Exposure control : Keep rooms well aired.

Breathing protection : In the case of poor ventilation, wear a self contained breathing device.

Hand protection : When it is necessary to wear gloves, rather use naturel rubber gloves.

Eye protection : If an eye protection is necessary, rather use waterproof glasses.

Skin protection : In function of the organisation of the workplace, wear special clothing which protects from contamination made by the smell of personal clothes.

Follow the usual rules of hygiene.

8. Stability and reactivity

Good stability to common temperatures, keep away from humidity.

Avoid exposure to temperatures which are close to the flash-point. Do not heat up.

Avoid contact with oxidizing agents.

9. Toxicological information

Complying with the standard EEC rules.

10. Environmental information

Does not contain any « perhalogen » substance, ar any similar product made to remain in the environment.

This product was not subject to any « ecotoxicologic » tests. Due to the difficulty of using the common « ecotoxicologic » test methods to predict the impact of the various ways of contact with vulnerable areas in the ecosystem, this product must be considered and handled as if it were a potential threat for the environment.

Take therefore all necessary precautions.

Argiles du Bassin Méditerranéen

S.A.R.L au capital de 7 622€

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11. Instruction concerning riddance

Garbage and refuse must be eliminated in keeping with the rules the European union or according to the national or regional legislation currently enacted.

12. Instruction concerning carriage

In the case of an accidental leak or fire during transportation, please consult the above instructions.

13. Information

Pure raw material. May be destined to private use under that form or to industrial use.

5. Specific indication

The information detailed in this form is based on our knowledge regarding the product on the specified date. It complies with the current legislation and is provided in good faith. However, please understand that possible risks may be run When a product is used for other purposes than those it is meant for.

B. ALLERGENS

Product reference : Red Clay Montmorillonite

1. PRESENCE OF ALLERGENS IN THE RAW MATERIALS

| ALLERGENS | PRESENCE |
|---|----------|
| Sulphites | No |
| Peanut And derived products (including oil) | No |
| Almond and derivatives (including oil) | No |
| Hazelnut and derivatives (including oil) | No |
| Cashew nut and derivatives (including oil) | No |
| Macadamia nut (including oil) | No |
| Pecan nut and derivatives (including oil) | No |
| Queesland nut and derivatives (including oil) | No |
| Brazilian nut and derivatives (including oil) | No |
| Nuts and derivatives (including oil) | No |
| Pine nut and derivatives (including oil) | No |
| Pistachio and derivatives | No |
| Other shell fruits or derivatives | No |
| Eggs and ovoproducts | No |



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MONTMORILLONITES • SMECTITES • KAOLINITES

| ALLERGENS | PRESENCE |
|---|----------|
| Fish - crustaceans and derived products (including gelatine) | No |
| Soy and derived products (including lecithin) | No |
| Gluten coming from: | |
| Wheat | No |
| Rye | No |
| Barley | No |
| Spelt | No |
| Oat | No |
| Hybrid kinds and products derived from gluten | No |
| Products taken from cereals containing gluten | No |
| Kamut | No |
| Milk | No |
| Dairy products including lactose, any other product derived from milk | No |
| Sesame and derivatives (including oil) | No |
| Lupine and derivatives | No |
| Celery and derivatives | No |
| Mustard and derivatives | No |

2. PRESENCE OF TRACES OF ALLERGENS (RISK OF CROSSED)

| ALLERGENS | FACTORY | WORKSHOP | PRODUCTION LINE | FORM (seed, flour, oil) |
|--|---------|----------|-----------------|-------------------------|
| Sulphites | No | No | No | No |
| Peanut And derived products (including oil) | No | No | No | No |
| Almond and derivatives (including oil) | No | No | No | No |
| Hazelnut and derivatives (including oil) | No | No | No | No |
| Cashew nut and derivatives (including oil) | No | No | No | No |
| Macadamia nut (including oil) | No | No | No | No |
| Pecan nut and derivatives (including oil) | No | No | No | No |
| Queesland nut and derivatives (including oil) | No | No | No | No |
| Brazilian nut and derivatives (including oil) | No | No | No | No |
| Nuts and derivatives (including oil) | No | No | No | No |
| Pine nut and derivatives (including oil) | No | No | No | No |
| Pistachio and derivatives | No | No | No | No |
| Other shell fruits or derivatives | No | No | No | No |
| Eggs and ovoproducts | No | No | No | No |
| Fish - crustaceans and derived products (including gelatine) | No | No | No | No |



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| ALLERGENS | FACTORY | WORKSHOP | PRODUCTION LINE | FORM (seed, flour, oil) |
|---|---------|----------|-----------------|-------------------------|
| Soy and derived products (including lecithin) | No | No | No | No |
| Gluten coming from: | | | | |
| Wheat | No | No | No | No |
| Rye | No | No | No | No |
| Barley | No | No | No | No |
| Spelt | No | No | No | No |
| Oat | No | No | No | No |
| Hybrid kinds and products derived from gluten | No | No | No | No |
| Products taken from cereals containing gluten | No | No | No | No |
| Kamut | No | No | No | No |
| Milk | No | No | No | No |
| Dairy products including lactose, any other product derived from milk | No | No | No | No |
| Sesame and derivatives (including oil) | No | No | No | No |
| Lupine and derivatives | No | No | No | No |
| Celery and derivatives | No | No | No | No |
| Mustard and derivatives | No | No | No | No |

3. PARTICULAR RISK : PEANUT

NONE

4. GENETICALLY MODIFIED ORGANISM

NONE



5. COSMETIC'S ALLERGENS (DIRECTIVE 2003/15/CE)

| N° | N° CAS | USUAL NAME | SUBSTANCE | INCI NAME | PRESENCE |
|----|------------|------------------------------|--|--|----------|
| 1 | 122-40-7 | Jasmonal | 2-Benzylidèneheptanal | 2-Benzylidèneheptanal | No |
| 2 | 100-51-6 | Benzyl Alcohol | Alcool Benzylque | Benzyl Alcohol | No |
| 3 | 104-54-01 | Alc Cinnamique | Alcool Cinnamylique | Cinnamyl Alcohol | No |
| 4 | 5392-40-5 | Citral | Citral | Citral | No |
| 5 | 97-53-0 | Eugénol | Eugénol | Eugenol | No |
| 6 | 107-75-5 | Hysimal (mélange) | 7-Hydroxycitronellal | Hydroxycitronellal | No |
| 7 | 97-54-1 | Isoeugénol | Isoeugénol | Isoeugenol | No |
| 8 | 101-85-9 | | 2-pentyl-3Phenylprop -2-ène-1-ol | 2-pentyl-3Phenylprop -2-ène-1-ol | No |
| 9 | 118-58-1 | Benzyl Salicylate | Benzyl Salicylate | Benzyl Salicylate | No |
| 10 | 104-55-2 | Cinnamaldéhyde | Cinnamaldéhyde | Cinnamal | No |
| 11 | 91-64-5 | Coumarine | Coumarine | Coumarin | No |
| 12 | 106-24-1 | Géranol | Géranol | Geraniol | No |
| 13 | 31906-04-4 | Lylal | 4-(4-Hydroxy-4-méthyl- pentyl) cyclohex-3-ène carbaldéhyde | 4-(4-Hydroxy-4-méthyl-pentyl) cyclohex-3-ène carbaldéhyde | No |
| 14 | 105-13-5 | | Alcool4-methoxy benzylique | 4-Methoxybenzyl Alcohol | No |
| 15 | 103-41-3 | | Cinnamate de Benzyle | Benzyle Cinnamate | No |
| 16 | 4602-84-0 | Farnesol | Farnesol | Farnesol | No |
| 17 | 80-54-6 | Lilial | 2-(4-tert-butylbenzyl) propionaldehyde | 2-(4-tert-butylbenzyl) propionaldehyde | No |
| 18 | 78-70-6 | Linalol | Linalol | Linalool | No |
| 19 | 120-51-4 | Benzoate Benzyl | Benzoate de Benzyl | Benzyl Benzoate | No |
| 20 | 106-22-9 | Citronellol | Citronellol | Citronellol | No |
| 21 | 101-86-0 | Jasmonal H Hexyl Cinnamal | α Hexylcinnamaldehyde | α Hexylcinnamaldehyde | No |
| 22 | 5989-27-5 | Orange terpenes Limonène | (R)-p-mentha-1,8-diène | (R)-p-mentha-1,8-diène | No |
| 23 | 111-12-6 | | Oct-2-ynoate de méthyle | Methyl Oct-2-ynoate | No |
| 24 | 127-51-5 | Methylationone Gamma | 3-méthyl-4-(2,6,6-triméthyl -2-cyclohexène-1-yl)-3 -butène-2-one | 3-méthyl-4-(2,6,6-triméthyl -2-cyclohexène-1-yl)-3 -butène-2-one | No |
| 25 | 90028-68-5 | Mousse yougos | Evernia prunastri extraits | Evernia prunastri | No |
| 26 | 90028-67-4 | | Evernia furfuracea extrait | Evernia furfuracea | No |




C. CERTIFICATES

C.1. NO-IONIZATION

We, as the company of the ARGILES DU BASSIN MEDITERRANEEN, guarantee that all of the products which we deliver have not undergone any gamma ray processing. And according to the information given by our providers, our products do not contain any components which were denature by gamma rays.

Drafted in La Londe (France), December 12th, 2023




Visa

C.2. ORIGIN

We, as the company ARGILES DU BASSIN MEDITERRANEEN, hereby certify that all of the clays which we exploit are of Italian origins and France for Kaolin, more precisely from Sardinia and Bretagne.

These Clays were extracted in an « open sky » fashion, in the countryside. (close to VILLA NOVA, SARDINIA and close Quessoy for the Kaolinite.

Drafted in la Londe (France), December 28th, 2023




Visa

C.3. GELATIN

We, as the company ARGILES DU BASSIN MEDITERRANEEN, hereby certify that the clays which we exploit do not contain any kind of gelatine.

Drafted in La Londe (France), December 6th, 2023



Visa



Argiles du Bassin Méditerranéen

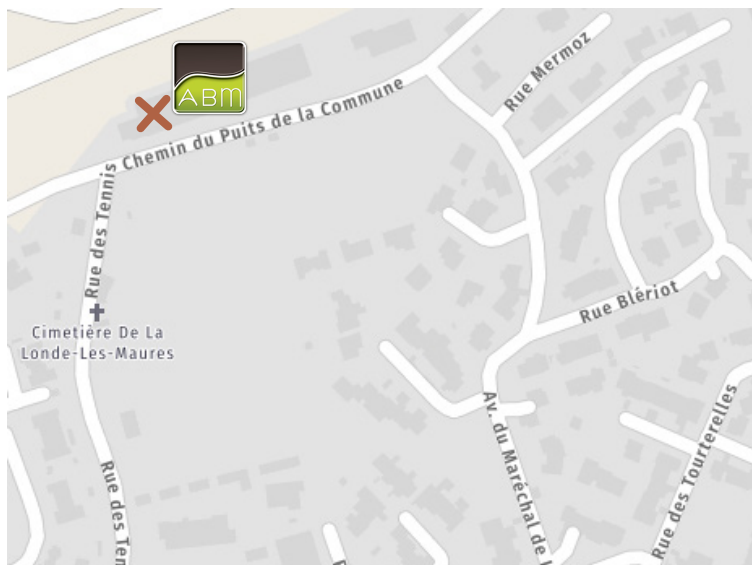
MONTMORILLONITES • SMECTITES • KAOLINITES

D. CONTACTS

ARGILES DU BASSIN MEDITERRANEEN (A.B.M.)
Z.A. du Bas JASSON
F-83250 LA LONDE

- ☎ 33.(0)4.94.66.62.94.
- 📠 33.(0)4.94.66.67.94.
- ✉ argiles.abm@gmail.com
- 🌐 www.argiles-abm.com

Commercial department: : Christophe RIBOT
✉ ribot@argiles-abm.com



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