TECHNICAL FILE

Green Montmorillonite Clay

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NATURAL INGREDIENTS

NON-IONISED

NOT TESTED ON ANIMALS

NO COLOURANTS

NO PRESERVATIVES

Approved by ECOCERT RAW MATERIAL COSMETICS

Argiles du Bassin Méditerranéen
S.A.R.L. – share capital €7,622
SIRET no.: 412 481 970 000 17
EU VAT no.: FR 44412481970
APE code: 523E

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A. INFORMATION

A.1. GENERAL INFORMATION

Origin

The quarry is located in Sardinia, in the municipality of Villanova Tulo. It covers an 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 content). Some seams even reach an excellent purity of up to 80 %.

Extraction

First, products intended for the pharmaceutical industry or similar uses are identified in the quarry through a series of core drillings, which allow us to determine the seams that meet the required standards.

Core samples are taken at one-metre intervals along a working face that is generally 25 metres long, for an extraction of 250 tonnes. The average height is 3 to 4 metres and the thickness 2 to 3 metres. The mineral is extracted by excavator, and the required quantity is immediately removed and stored under cover.

Treatment

On extraction, the clay comes in the form of semi-moist blocks (25 % moisture on average) measuring between 2 and 30 cm. It must be crushed in order to be dried properly. Drying takes place in a gas-heated rotary dryer made of tempered steel, with a co-current air flow so that the temperature does not exceed 100 °C.

The material is then ground on Forplex equipment comprising an F3 mill and an SD3 dynamic classifier. In addition, the dryer operating process we have developed guarantees the bacteriological cleanliness of the clays we process.

Controls

- X-ray diffraction to identify the clay to be processed
- Ion exchange capacity to check the montmorillonite content
- Lead and heavy metal levels
- Bacteriological control of each batch
- Physico-chemical control

Our technical data sheets take all these analyses into account and, naturally, any product that does not meet our requirements is rejected.

A.2. SCIENTIFIC DATA

I. Identification

Supplier	**Argiles du Bassin Méditerranéen**
Product name	**Green Montmorillonite Clay**
INCI name	**Montmorillonite**
Composition	**$(Na,Ca)_{0,33}(Al,Mg)_2Si_4O_{10}(OH)_2 \cdot nH_2O$**
INCI US name	**Montmorillonite**
CAS no.	**1318-93-0**
EINECS no.	**215-288-5**
Customs code	**2508 10 00 00**
Organic market authorisation	**Yes – 100 % natural product, ECOCERT certified**
Origin	**Mineral**
Storage conditions	**Dry, from -10 °C to +40 °C; avoid extreme temperatures**
Shelf life	**Not applicable**
Tested on animals	**No**
Packaging	**28 litres – 25 kg net, 25.5 kg gross**
Container	**Kraft bags, 2 valves**

II. Technical data sheet

	Aspect	Colour	Odour	Density	C.E.C.
Result	Fine powder < 77 microns	Green	None	0.7 to 0.8	74.4 meq
Method	Sieving	Pantone ref.	Human	Weight/volume	X-ray diffraction

Chemical analysis	%
SiO_2	50.11
Al_2O_3	18.89
Fe_2O_3	3.02
MgO	0.02
K_2O	1.02
Na_2O	0.01
TiO_2	0.3
CaO	1.28
MnO	0.02
P_2O_5	0.04

Type of clay	**Natural aluminium, iron and magnesium silicate**
Major constituent	Smectite (montmorillonite) > 80 %
Presentation (dry)	Green clay powder
Cation exchange capacity (C.E.C.)	> 74.40 meq/100 g
Loss on ignition (1000 °C)	20.64 %

DISCLAIMER

Our technical information is provided to the best of our knowledge. It is given for guidance only and presents analytical results (microbiology, heavy metals, etc.) that may be incomplete depending on your intended use, and it cannot engage our liability. It does not relieve you of the need to check for yourself that the products delivered meet the applicable standards, obligations and intended purposes.
Our safety advice does not relieve you of the need to determine the safety measures suited to the specific conditions of your operations, which we cannot foresee, and in particular to ensure the technical qualification and information of all persons who use, handle or come into contact with the product.

A.3. SAFETY DATA

1. Identification of the product and of the company

Harmless product.

Trade name	**Green Montmorillonite Clay**
Use	**Parapharmaceuticals, cosmetics, food supplements**
Company	**Argiles du Bassin Méditerranéen** **Z.A. du Bas Jasson, 83250 La Londe-les-Maures, France** **Phone: +33 (0)6 71 59 06 35**

2. Composition / information on the product

Nature of the product	**Raw material, 100 % natural**
INCI name	**MONTMORILLONITE**
CAS no.	**1318-93-0**
EINECS no.	**215-288-5**
Formula	$(Na,Ca)_{0,33}(Al,Mg)_2Si_4O_{10}(OH)_2 \cdot nH_2O$

3. Hazards identification and first-aid measures

Harmless product.

Skin contact	**Remove contaminated clothing and rinse with water (or soap and water).**
Eye contact	**Rinse thoroughly with water for at least 10 minutes. Seek medical attention if irritation appears.**
Accidental ingestion	**Drink water.**
Excessive inhalation	**Move the person to fresh air and keep them under observation.**
General comment	**Clay is not a dangerous product; however, in the event of significant intoxication, seek medical attention.**

4. Fire-fighting measures

Clay is not flammable; however, the packaging is made of paper. If necessary, use a suitable extinguisher (water spray).

5. Accidental release measures

Personal precautions	**Avoid contact with the eyes.**
Environmental precautions	**Avoid release into drains, soil or any aquatic environment.**
Cleaning methods	**Use a broom or a vacuum cleaner.**

6. Handling and storage

Handling	**Avoid contact with the eyes. Follow the usual hygiene rules. Keep premises well ventilated.**
Storage	**Keep containers tightly closed in a dry place, at a temperature between -10 °C and +40 °C. Avoid extreme temperatures.**

7. Exposure controls / personal protection

Exposure control	**Keep premises well ventilated.**
Respiratory protection	**In case of poor ventilation or dust formation, wear a fine-dust mask (FFP2).**
Hand protection	**If gloves are required, preferably use natural rubber gloves.**
Eye protection	**If eye protection is required, preferably wear tight-fitting goggles.**
Skin protection	**Depending on the organisation of the workplace, wear work clothing that prevents contamination of personal clothing. Follow the usual hygiene rules.**

8. Stability and reactivity

Stable at normal temperatures; keep away from humidity. Do not heat. Avoid contact with oxidising agents.

9. Toxicological information

Complies with the standard EEC rules.

10. Ecological information

Does not contain any perhalogenated substance or any similar product designed to persist in the environment. This product has not been subject to ecotoxicological testing.

11. Disposal considerations

Waste must be disposed of in accordance with European Union rules or with the national or regional legislation in force.

12. Transport information

In the event of an accidental spill or fire during transport, refer to the instructions above.

13. Other information

Pure raw material. May be intended for private use in this form or for industrial use.

14. Specific indication

The information in this document is based on our knowledge of the product at the date indicated. It complies with current legislation and is provided in good faith. However, please be aware that risks may arise when a product is used for purposes other than those for which it is intended.

B. ALLERGENS

Product reference **Green Montmorillonite Clay**

1. PRESENCE OF ALLERGENS IN THE RAW MATERIAL

Allergen	Presence
Sulphites	No
Peanuts and derived products (including oil)	No
Almonds and derivatives (including oil)	No
Hazelnuts and derivatives (including oil)	No
Cashew nuts and derivatives (including oil)	No
Macadamia nuts and derivatives (including oil)	No
Pecan nuts and derivatives (including oil)	No
Queensland nuts and derivatives (including oil)	No
Brazil nuts and derivatives (including oil)	No
Walnuts and derivatives (including oil)	No
Pine nuts and derivatives (including oil)	No
Pistachios and derivatives	No
Other nuts or derivatives	No
Eggs and egg products	No
Fish, crustaceans, molluscs and derived products (including gelatine)	No
Soy and derived products (including lecithin)	No
Gluten from:	
Wheat	No
Rye	No
Barley	No
Spelt	No
Oats	No
Hybrid strains and gluten-derived products	No
Products made from cereals containing gluten	No

Allergen	Presence
Kamut	No
Milk	No
Dairy products, including lactose and any other milk derivative	No
Sesame and derivatives (including oil)	No
Lupin and derivatives	No
Celery and derivatives	No
Mustard and derivatives	No

2. PRESENCE OF TRACES OF ALLERGENS (CROSS-CONTAMINATION RISK)

Allergen	Factory	Workshop	Production line	Form (seed, flour, oil)
Sulphites	No	No	No	No
Peanuts and derived products (including oil)	No	No	No	No
Almonds and derivatives (including oil)	No	No	No	No
Hazelnuts and derivatives (including oil)	No	No	No	No
Cashew nuts and derivatives (including oil)	No	No	No	No
Macadamia nuts and derivatives (including oil)	No	No	No	No
Pecan nuts and derivatives (including oil)	No	No	No	No
Queensland nuts and derivatives (including oil)	No	No	No	No
Brazil nuts and derivatives (including oil)	No	No	No	No
Walnuts and derivatives (including oil)	No	No	No	No
Pine nuts and derivatives (including oil)	No	No	No	No
Pistachios and derivatives	No	No	No	No
Other nuts or derivatives	No	No	No	No
Eggs and egg products	No	No	No	No
Fish, crustaceans, molluscs and derived products (including gelatine)	No	No	No	No
Soy and derived products (including lecithin)	No	No	No	No

Allergen	Factory	Workshop	Production line	Form (seed, flour, oil)
Gluten from:				
Wheat	No	No	No	No
Rye	No	No	No	No
Barley	No	No	No	No
Spelt	No	No	No	No
Oats	No	No	No	No
Hybrid strains and gluten-derived products	No	No	No	No
Products made from cereals containing gluten	No	No	No	No
Kamut	No	No	No	No
Milk	No	No	No	No
Dairy products, including lactose and any other milk derivative	No	No	No	No
Sesame and derivatives (including oil)	No	No	No	No
Lupin and derivatives	No	No	No	No
Celery and derivatives	No	No	No	No
Mustard and derivatives	No	No	No	No

3. PARTICULAR RISK: PEANUT

Presence NONE

4. GENETICALLY MODIFIED ORGANISMS

Presence NONE

5. COSMETIC ALLERGENS (DIRECTIVE 2003/15/EC)

No.	CAS no.	Usual name	Substance	INCI name	Presence
1	122-40-7	Jasmonal	2-Benzylideneheptanal	Amyl Cinnamal	No
2	100-51-6	Benzyl alcohol	Benzyl alcohol	Benzyl Alcohol	No
3	104-54-1	Cinnamic alcohol	Cinnamyl alcohol	Cinnamyl Alcohol	No
4	5392-40-5	Citral	Citral	Citral	No
5	97-53-0	Eugenol	Eugenol	Eugenol	No

No.	CAS no.	Usual name	Substance	INCI name	Presence
6	107-75-5	Hysimal (blend)	7-Hydroxycitronellal	Hydroxycitronellal	No
7	97-54-1	Isoeugenol	Isoeugenol	Isoeugenol	No
8	101-85-9		2-Pentyl-3-phenylprop-2-en-1-ol	Amylcinnamyl Alcohol	No
9	118-58-1	Benzyl salicylate	Benzyl salicylate	Benzyl Salicylate	No
10	104-55-2	Cinnamaldehyde	Cinnamaldehyde	Cinnamal	No
11	91-64-5	Coumarin	Coumarin	Coumarin	No
12	106-24-1	Geraniol	Geraniol	Geraniol	No
13	31906-04-4	Lyral	4-(4-Hydroxy-4-methylpentyl)cyclohex-3-ene-1-carbaldehyde	Hydroxyisohexyl 3-Cyclohexene Carboxaldehyde	No
14	105-13-5		4-Methoxybenzyl alcohol	Anise Alcohol	No
15	103-41-3		Benzyl cinnamate	Benzyl Cinnamate	No
16	4602-84-0	Farnesol	Farnesol	Farnesol	No
17	80-54-6	Lilial	2-(4-tert-Butylbenzyl)propionaldehyde	Butylphenyl Methylpropional	No
18	78-70-6	Linalool	Linalool	Linalool	No
19	120-51-4	Benzyl benzoate	Benzyl benzoate	Benzyl Benzoate	No
20	106-22-9	Citronellol	Citronellol	Citronellol	No
21	101-86-0	Jasmonal H / Hexyl cinnamal	alpha-Hexylcinnamaldehyde	Hexyl Cinnamal	No
22	5989-27-5	Orange terpenes / Limonene	(R)-p-Mentha-1,8-diene	Limonene	No
23	111-12-6		Methyl oct-2-ynoate	Methyl 2-Octynoate	No
24	127-51-5	Methylionone gamma	3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	Alpha-Isomethyl Ionone	No
25	90028-68-5	Oakmoss	Evernia prunastri extract	Evernia Prunastri Extract	No
26	90028-67-4	Treemoss	Evernia furfuracea extract	Evernia Furfuracea Extract	No

C. CERTIFICATES

C.1. NON-IONISATION

We, Argiles du Bassin Méditerranéen, guarantee that none of the products we deliver has undergone any gamma-ray treatment and, according to the information provided by our suppliers, that our products do not contain any ingredient treated with gamma rays.

Drafted in La Londe-les-Maures (France), on November 25, 2026



Visa

C.2. ORIGIN

We, Argiles du Bassin Méditerranéen, hereby certify that the clays we exploit are of Italian origin (Sardinia), and of French origin (Brittany) for the kaolin.
These clays are extracted from open-cast quarries in the countryside, near Villanova Tulo (Sardinia) and near Quessoy (Brittany) for the kaolin.

Drafted in La Londe-les-Maures (France), on November 25, 2026



Visa

C.3. GELATINE

We, Argiles du Bassin Méditerranéen, hereby certify that the clays we exploit do not contain gelatine of any kind.

Drafted in La Londe-les-Maures (France), on November 25, 2026



Visa

C.4. APPROVAL

Argiles du Bassin Méditerranéen is approved as an active establishment officially registered for animal feed under number FR 83071001.

Drafted in La Londe-les-Maures (France), on November 25, 2026



Visa

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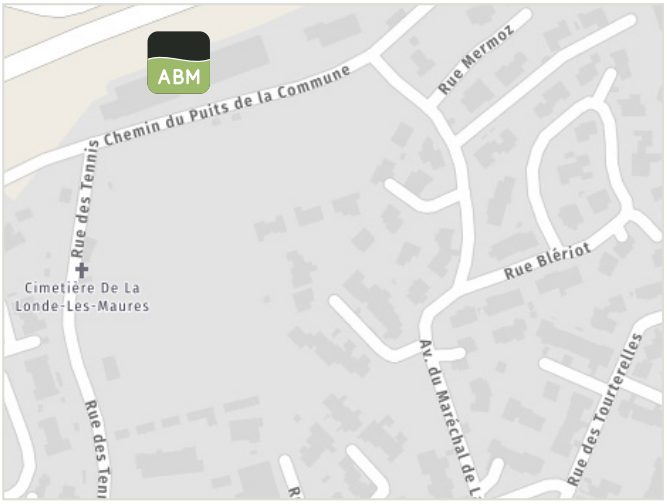

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