

TECHNICAL DATA SHEET

Effective date: 11.2020
Rev.1

Green Clay

INFORMATION ON SUBSTANCE / MIXTURE

INCI	Montmorillonite
Raw material name	Smectite - Green clay, natural silicate of aluminum, iron and magnesium > 97 %
Major Constituent	Smectite (Montmorillonite) > 80 %
Origin	Mineral, 100% Natural product
Chemical formula	$(\text{Na,Ca})\text{O}_{0.33}(\text{Al,Mg})_2\text{Si}_4\text{O}_{10}(\text{OH})_2 \cdot n\text{H}_2\text{O}$
Manufacturing process	The mineral is extracted by means of digging, then crushed, dried and ground

TECHNICAL DATA

Physical parameters

Appearance	Fine powder
Particle size	< 77 μm
Color	Green
Odor	Neutral
Density	0.7 - 0.8 g/cm ³
Cation exchange Capacity(CEC)	> 74.40 Meq per 100 g
Loss of Ignition (1000°C)	20.64 %

Chemical parameters

Elements	average %
SiO ₂	50.11
Al ₂ O ₃	18.89
Fe ₂ O ₃	3.02
MgO	0.02
K ₂ O	1.02
Na ₂ O	0.01
TiO ₂	0.3
CaO	1.28

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MnO	0.02
P ₂ O ₅	0.04

Biological parameters

Aerobic mesophilic count	< 1000 cfu/g
Staphylococcus aureus	Absent/g
Pseudomonas aeruginosa	Absent/g
Candida albicans	Absent/g
Escherichia coli	Absent/g

Impurities

Heavy metals	mg/kg
Arsenic	2.60
Lead	24
Cadmium	< 0.01
Mercury	0.10

LEGISLATION

Certification	Ecocert approved
CMR substances	This product is free from substances classified as carcinogenic, mutagenic or toxic for reproduction (CMR) of category 1A, 1B or 2 under Part 3 of Annex VI to Regulation (EC) No 1272/2008.
Nanomaterials	This product is not considered as a nanomaterial, and doesn't contain nanoparticles as defined by the European commission and as described in EU n°1223/2009 and 2012-232 (ANSES).
Animal testing	No
Ionisation	Has not undergone any gamma ray processing
Gelatin	Do not contain any kind of gelatin
GMO	Non-GMO
EINECS	215-288-5
CAS	1318-93-0

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TRANSPORT, STORAGE and SHELF LIFE

Storage conditions	Store in closed containers, sheltered away from extreme temperatures (- 10° C / + 40° C) and humidity.
Shelf Life	5 years under good storage conditions.

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