

**TECHNICAL DATA SHEET**

Effective date: 11.2020

**Red Clay****INFORMATION ON SUBSTANCE / MIXTURE**

INCI	Montmorillonite
Raw material name	Smectite - Red clay, natural silicate of aluminum, iron and magnesium > 97 %
Origin	Mineral, 100% natural product
Chemical formula	$(\text{Na,Ca})\text{O}_{0,33}(\text{Al,Mg})_2\text{Si}_4\text{O}_{10}(\text{OH})_2, n\text{H}_2\text{O}$
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 $\mu\text{m}$
Color	Brick Red
Odor	Neutral
pH (10% H <sub>2</sub> O Di)	7.5 - 8.5
Density	0.7 - 0.8 g/cm <sup>3</sup>
Cation exchange capacity(CEC) - Adsorption Blue Methylene	100 - 110 meq
Adsorbant Power (strychnine sulfate)	> 400 mg/g
Grit	< 2,90 % (0 % to 3 % max.)
Loss on ignition (1000°C)	10.60 % (10% to 13% max.)

**Chemical parameters**

Elements	%
SiO <sub>2</sub>	58 - 62
Al <sub>2</sub> O <sub>3</sub>	15 - 18
Fe <sub>2</sub> O <sub>3</sub>	3 - 4
MgO	5 - 6
K <sub>2</sub> O	0,5 - 1
Na <sub>2</sub> O	0,1 - 0,3

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TiO <sub>2</sub>	0,1 - 0,3
CaO	3 - 4
MnO	Traces
P <sub>2</sub> O <sub>5</sub>	Traces

**Biological parameters**

Viable mesophilic count	< 10000 ufc/g
Pathogens	Absent/g
Yeasts	< 100 ufc/g

**Contaminants**

<b>Heavy Metals</b>	<b>ppm</b>
Arsenic	< 2
Led	< 10
Cadmium	< 1
Mercury	< 1

**LEGISLATION**

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
GMO	Non-GMO
EINECS	215-288-5
CAS	1318-93-0

**TRANSPORT, STORAGE and SHELF LIFE**

Storage conditions	Store in closed containers, sheltered away from extreme temperatures (- 10° C /
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	+ 40° C) and humidity.
Shelf Life	5 years under good storage conditions.
Customs code	2508400000

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