SAFETY DATA SHEET

Product: Red Montmorillonite Clay

Version	1.11.26
Revision	25.11.2026
Printed	25.11.2026

In accordance with Regulation (EC) No 1907/2006, Regulation (EC) No 1272/2008, Regulation (EU) 2015/830 and Regulation (EU) 2020/878

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

Trade name of the product

RED MONTMORILLONITE CLAY

Use of the substance/preparation

Montmorillonite clay is used as a base for masks and poultices in the cosmetics industry. It is also used in the dietetics industry as a food supplement.

Manufacturer/supplier details

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2 HAZARDS IDENTIFICATION

Hazards to humans and the environment

No hazard to humans or the environment is known or foreseeable.

Hazard designation

The product is not considered a hazardous substance within the meaning of European Directive 67/548/EEC.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterisation (single substances)

Description: Montmorillonite clay is a natural complex silicate of aluminium, iron and magnesium.

Components

CAS number	Classification under the European directive	EC classification
1318-93-0	Montmorillonite	Not classified

4 FIRST-AID MEASURES

General advice

No special measures required.

After inhalation

Move to fresh air. If you feel unwell, consult a doctor.

After skin contact

Rinse thoroughly with water.

After eye contact

Rinse carefully with water, including under the eyelids.

After ingestion

If you feel unwell, consult a doctor.

5 FIRE-FIGHTING MEASURES

Suitable extinguishing media

Non-flammable; releases no hazardous decomposition products.

Extinguishing media not to be used for safety reasons

None.

Special hazards arising from the substance itself, its combustion products or resulting gases

None.

Special protective equipment for fire-fighters

None.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid dust formation. In dusty atmospheres, a protective mask must be worn.

Environmental precautions

See section 12 “Ecological information”.

Methods for cleaning up/taking up

Take up with an approved industrial vacuum cleaner (dust class M). Keep in closed containers for disposal.

Additional information

Recycling is preferable to disposal. No harmful substances are released.

7 HANDLING AND STORAGE

Precautions for safe handling

Keep the container tightly closed. Avoid dust formation. Provide ventilation where dust is formed. If ventilation is insufficient, see section 8. Remove and wash contaminated clothing.

Information on fire and explosion protection

No special fire protection measures are required.

Requirements for storage rooms and containers

Keep containers tightly closed and dry. Provide dust protection during packing.

Further information on storage conditions

Store in a dry place, between -10 °C and +40 °C; avoid extreme temperatures.

Storage class

Non-combustible solids.

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8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information on the design of technical facilities

Ensure proper ventilation and filtration on processing machines and wherever dust may be formed.

Components with workplace limit values to be monitored

If a concentration of 0.15 mg/m³ (limit value), measured as respirable (alveolar) dust content of cryptocrystalline silica, is respected, silicotic disease among staff can be ruled out with near certainty.
Work carried out in dusty atmospheres must be monitored: dust sampling in accordance with standard EN 481.

Personal protective equipment

Measure	Requirement
General safety measures	Wash hands before breaks and at the end of work. Do not inhale dust. Never eat or drink while working. Remove contaminated clothing and wash before reuse.
Respiratory protection	If dust exceeds a concentration of 0.15 mg/m³, wear a fine-dust mask (FFP2).
Hand protection	Not applicable.
Eye protection	Safety glasses with side shields.
Body protection	Not applicable.
Hygiene measures	Keep everyday clothing separate from work clothing.
Environmental exposure controls	No special measures required.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Property	Value	Method
Form	Powder	
Colour	Red	
Odour	Odourless	
Density at 20 °C	0.7 to 0.8 g/cm³	DIN ISO 787 part 10
Solubility in water at 20 °C	Insoluble	DIN ISO 787 part 8

Additional data

Thorough in-house mineralogical investigations show that the clay mineral content (montmorillonite) is a unique and rare mineralogical specimen, never before described in this form.

Further information is available at www.argiles-abm.com.

10 STABILITY AND REACTIVITY

Conditions to avoid
No specific measures required.

Materials to avoid
No particular incompatibility.

Hazardous decomposition products
No decomposition known.

11 TOXICOLOGICAL INFORMATION

Experience with humans
Standardised “in vivo” and “in vitro” studies (Bruch et al., 2001 – 2007) to determine the toxicity of the silica compared with, for example, standard quartz DQ 12 showed very low biological activity, probably indicating properties that differ from those of quartz. Reference should be made here to a limiting comment published in the 1997 IARC (International Agency for Research on Cancer) monograph, which puts the carcinogenic risk of quartz to humans (classification: group 1) into perspective: “In making the overall evaluation, the IARC working group noted that carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs.” A.B.M.’s experience in handling silica in accordance with hygiene rules dates back to 1997 and can be summarised as follows:

Silicosis
With a respirable cryptocrystalline silica concentration at the workplace of 0.15 mg/m³, silicotic disease can be ruled out with near certainty.

Lung cancer
Respecting the fine-dust concentration above, which rules out any risk of silicosis, also prevents the associated cancer risks.

12 ECOLOGICAL INFORMATION

General notes
The substances listed in section 3 “Composition/information on ingredients” belong to the silicate/oxide mineral class and are a common constituent of the Earth’s crust. No known or foreseeable ecological damage.

13 DISPOSAL CONSIDERATIONS

Recommendation
May be disposed of in a landfill in accordance with local regulations. Recycling is preferable to disposal. When landfilled, the material must be well sealed to avoid dust formation.

Item	Information
Waste code	A waste code cannot be assigned to this product under the European Waste Catalogue (EWC), as only its use by the consumer allows it to be classified. The waste code must be determined in consultation with the regional waste disposal authority.
Waste name	Silica waste
Proof of disposal required (yes/no)	No
Uncleaned packaging	Empty packaging should be reused, recycled or disposed of appropriately.
Recommendations	Dust may form when folding empty paper bags and flexible containers. Follow the relevant occupational safety measures.

14 TRANSPORT INFORMATION

Transport/further information

Not classified as dangerous goods under GGVS/GGVE, RID/ADR, ADNR, IMDG and IATA-DGR.

15 REGULATORY INFORMATION

Labelling

This product is not subject to labelling requirements under the EC directive / hazardous substances regulations.

16 OTHER INFORMATION

Third-party materials

Where materials not manufactured or supplied by A.B.M. are used together with or instead of A.B.M. materials, it is the customer's responsibility to obtain from the manufacturer or supplier all technical data and other properties relating to these and other materials, and all information concerning the manufacturer or supplier.
A.B.M. can only be held liable where A.B.M. products are used.

Liability

The information given is based on A.B.M.'s know-how and knowledge and is consistent with the data stated. However, no formal warranty can be given as to the accuracy, reliability or completeness of this information.
It is the user's responsibility to ensure that the information is suitable and complete for their specific use.

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INSTRUCTIONS ON THE PACKAGING

This product contains respirable cryptocrystalline silica.

Minimise dust

Work in a way that produces as little dust as possible.

Do not shake clothing

Do not beat or shake dusty work clothing.

Mask required

A mask must be worn in areas without dust extraction (see section 8).

Store dry

Protect the packaging from moisture and bad weather (see section 7).

Recyclable packaging

Paper bag to be recovered through the RepaSack packaging take-back scheme.

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