SAFETY DATA SHEET (SDS)

NATURAL MINERAL MARINE CLAY, NOT CHEMICALLY MODIFIED

Revision: 11.06.2021
Replaces the version of: 12.08.2015

SECTION 1: Product and company information

- **Product identifier**

INCI Name: Manicouagan clay

Trade Name: **Argile eau mer / Manicouagan sea minerals**
Substance: Powder

- **Other means of identification**
  - Manicouagan marine **powder**; ice clay powder; Manicouagan marine clay; Manicouagan Sea Clay powder

Canadian supplier identifier (Name, full address and phone number):

Argile eau mer Inc. / Manicouagan sea Mineral
Website: www.manicouaganseaminerals.com Phone: 1 (418) 567-9620
Email: infos@manicouaganseaminerals.com

Address: **Plant, laboratory & deposit**
Argile eau mer inc.
35, Principal road
Pointe-aux-Outardes, Québec
G0H 1M0

- **Emergency telephone number and any restrictions on the use of that number**

Emergency telephone number: (418) 567-9620

- **Recommended use**
  - Topical use in dermo-cosmetic purposes.
  - Recommended dose: 2 to 75%
- **Restrictions on use**
  - For external use only.

SECTION 2 : Hazard identification

- **Hazard classification (class, category) of substance or mixture or a description of the identified hazard for Physical or Health Hazards Not Otherwise Classified:**

EC classification n° 1272/2008 : none

- **Label elements:**
  - Symbol (image) or the name of the symbol
    - None
  - Signal word
    - None
  - Hazard statement(s)
    - None
  - Precautionary statement(s)
    - None

- **Other hazards which do not result in classification:**

EMERGENCY OVERVIEW
N-A

Potential Health Effects:

Eye: Contact may cause mechanical irritation with redness, tearing and pain.

Skin: May cause drying of the skin

Inhalation: Inhalation of high concentrations of dust may cause mucous membrane and respiratory irritation.

Ingestion: Swallowing large amounts may cause gastrointestinal irritation.

Chronic Hazards: Repeated prolonged overexposure to dust may cause lung damage. This product contains crystalline silica. Repeated inhalation of silica dust over an

extended period of time may result in a progressive, disabling, potentially fatal lung disease, silicosis.
Symptoms include shortness of breath, chest pain and reduced lung function. Prolonged exposure to respirable crystalline silica is also associated with chronic bronchitis, emphysema, autoimmune disorders including scleroderma and rheumatoid arthritis and kidney disease. Exposure to respirable crystalline silica increases the risk of tuberculosis.

Carcinogen Status: The International Agency for Research on Cancer has determined that respirable crystalline silica is a known human carcinogen (Group 1). The National Toxicology Program classifies respirable crystalline silica as a known human carcinogen.

Medical Conditions Aggravated by Exposure: Persons with pre-existing respiratory disorders may be at an increased risk from exposure.

SECTION 3 : Composition/Information on ingredients

CAS Registry Number	
Quartz	14808-60-7
Albite	12244-10-9
Illite	12173-60-3
Hornblende	12178-42-6
Apatite	1306-04-3
Feldspar	68476-25-5
Nepheline	12251-27-3

MINERAL COMPOSITION* :

Mineral	**Quartz**	**Albite**	**Illite**	**Hornblende**	**Chlorite**	**Apatite**
Proportions (%)	21	29	31	15	1,5	0,5
SiO_2	100	68	34	51	30	-
Al_2O_3	-	20	30	5	20	-
Fe_2O_3	-	-	18	3	16	-
MgO	-	-	2	15	22	-
CaO	-	-	-	24	1	58
Na_2O	-	12	1	-		-
K_2O	-	-	9	-	-	-
TiO_2	-	-	2	-	-	-
P_2O_5	-	-	-	-	-	42
PAF	-	-	4	2	11	-

***** Minor amount of Feldspar and Nepheline were detected.

CHEMICAL COMPOSITION

Compound	**SiO_2**	**Al_2O_3**	**Fe_2O_3**	**MgO**	**CaO**
Quantity(%)	59,80	16,20	6,25	3,34	3,92
Compound	**Na_2O**	**K_2O**	**TiO_2**	**P_2O_5**	**MnO**
Quantity(%)	3,80	2,81	0,66	0,21	0,09
Compound	**Cr_2O_3**	**PAF**	**C_{total}**	**Others**	
Quantity(%)	0,02	1,78	0,22	0,9	

SECTION 4: First-aid measures

- **First-aid measures by route of exposure:**
- **Eye:** Flush immediately with large amounts of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. Avoid rubbing the eyes as this may increase irritation. If irritation persists get medical attention.
- **Skin:** No first aid is normally needed. Wash exposed skin with soap and water after use. If irritation or rash develops get medical attention. Use skin lotion if dryness occurs.
- **Inhalation:** No first aid normally needed. If irritation develops, remove person from source of exposure to fresh air. If symptoms persist get medical attention.
- **Ingestion:** Clear material from mouth. No harmful effects are expected from a small ingestion. If large amounts are swallowed, get medical attention.
- **Most important symptoms and effects (acute or delayed):** N.A.
- **Immediate medical attention and special treatment, if necessary:** N.A.

SECTION 5: Fire-fighting measures

- **Suitable extinguishing media:** This product is not combustible. Use any media that is appropriate for the surrounding fire.
- **Unsuitable extinguishing media**: None.
- **Specific hazards arising from the hazardous product** (e.g., hazardous combustion products): N.A.
- **Special protective equipment and precautions for fire-fighters**: N.A.

SECTION 6 : Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**

Eyes protection: Protective eyewear
Respiratory protection: Mask

Gloves:	Waterproof gloves
Other protection :	In accordance with the directives of your employer.

- **Methods and materials for containment and cleaning up**
  - Can be clean with water. Sweep up or vacuum, avoiding the creation of airborne dust, and collect into a suitable container for disposal.

SECTION 7: Handling and storage

- **Personal precautions, protective equipment and emergency procedures**

Eyes protection:	Protective eyewear
Respiratory protection:	Mask. Not necessary if working area is well ventilated.
Gloves:	Waterproof gloves
Other protection :	In accordance with the directives of your employer.
Storage:	Store in a dry area and avoid dust formation.

SECTION 8: Exposure controls/ Personal protection

- **Control parameters, including occupational exposure guidelines or biological exposure limits and the source of those values**:

Occupational exposure limits of respirable silica or illite in the working areas are usually imposed by national or local regulations.

- **Appropriate engineering controls**:

Ventilation: General ventilation should be adequate for normal use. For operations where the TLV may be exceeded, mechanical ventilation such as local exhaust may be needed to maintain exposure levels below applicable limits.

- **Individual protection measures (e.g. personal protective equipment):**

Respiratory Protection: None needed under normal use conditions. For operations where the exposure limit may be exceeded, a NIOSH approved high efficiency particulate respirator is recommended. Equipment selection depends on contaminant type and concentration, select in accordance with 29 CFR 1910.134 and good industrial hygiene practice.

Skin Protection: None needed for normal use.

Eye Protection: None needed for normal use. For dusty conditions, safety glasses or goggles can be used.

- **Other Protective Equipment:** In accordance with the directives of your employer.

SECTION 9: Physical and chemical properties

- Physical state: Solid; Powder
- Colour: Gray
- Odour: None.
- Odour threshold: N.A.
- pH: None. (7,5 to 8,0 if you add water to powder)
- Melting point/Freezing point: N.A.
- Initial boiling point/boiling range: N.A.
- Flash point: N.A.
- Evaporation rate: N.A.
- Flammability (solid; gas): N.A.
- Lower flammable/explosive limit: N.A.
- Upper flammable/explosive limit: N.A.
- Vapour pressure: N.A.
- Vapour density: N.A.
- Relative density: N.A.
- Solubility in water: N.A.
- Partition coefficient - n-octanol/water : N.A.
- Auto-ignition temperature: N.A.
- Decomposition temperature: N.A.
- Viscosity: N.A.
- Microalgea: detected
- Granulometry:

SECTION 10: Stability and reactivity

- **Reactivity**: N.A.
- **Chemical stability**: Stable.
- **Possibility of hazardous reactions:** N.A.
- **Conditions to avoid (e.g., static discharge, shock, or vibration):** N.A.
- **Incompatible materials:** N.A.
- **Hazardous decomposition products**: N.A.

SECTION 11: Toxicological information

This product is composed of natural clay minerals, without chemical modifications.

- **Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact)**
  - There are no deleterious effects known.
- **Symptoms related to the physical, chemical and toxicological characteristics**
  - No known symptoms.
- **Delayed and immediate effects, and chronic effects from short-term and long-term exposure**
  - No known delayed or immediate effects.
- **Numerical measures of toxicity**
  - Free of pathogenic bacteria.

SECTION 12: Ecological information

- **Ecotoxicity:** None
- **Persistence and degradability:** N.A.
- **Bioaccumulative potential:** None
- **Mobility in soil:** N.A. Manicouagan clay may be considered as a type of soil, naturally.
- **Other adverse effects:** None

SECTION 13: Disposal considerations

Information on safe handling for disposal and methods of disposal, including any contaminated packaging:
Dispose in accordance with federal, state and local regulations.

SECTION 14: Transport information

- **UN number**: S.H. number 2508.40.0099
- **UN proper shipping name (international)**: Manicouagan Sea Clay
- **Transport hazard class(es):** None.
- **Packing group:** None.
- **Environmental hazards:** None.

- **Transport in bulk, if applicable:** If the product is sterilized, it may be transported in 30kg buckets or drums. If the product is not sterilized, there are possibilities of transportation in big bags. Above 1 ton, there are many possibilities to transport in bulk.
- **Special precautions:** Fragile. It has to be keep hermetically closed to preserve the product safety. Do not stack on top.
- **IATA DGR Regulations:** ALL ITEMS COVERED BY THIS DOCUMENT CONTAINS NO MATERIAL THAT IS CONSIDERED TO BE HAZARDEOUS FOR AIR TRANSPORTATION.

SECTION 15: Regulatory information

This product is not subject to REACH restriction in accordance with the Annex V.7.
This product contains crystalline silica, as do most natural clay minerals.
All of the components of this product are exempt from notification requirements.
The extraction is made under the Quebec Mining Act.

SECTION 16: Other information

Date of the latest revision of the SDS: 2021-06-11.
These technical information come from scientific data and publication.

Reference for WHMIS: http://www.ccohs.ca/oshanswers/chemicals/whmis_ghs/sds.html