# SAFETY DATA SHEET

## Section 1. Identification

<table>
<thead>
<tr>
<th>Product name</th>
<th>MCNAMEE® CLAY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
<td>09109</td>
</tr>
</tbody>
</table>
| Supplier/Manufacturer | Vanderbilt Minerals, LLC  
33 Winfield Street  
Norwalk, CT 06855 |
| Chemical name      | Hydrated aluminum silicate mineral                                           |
| Synonym            | Clay, kaolin, kaolinite                                                       |
| Material uses      | Additive filler in rubber and paper                                           |
| Product type       | Solid.                                                                        |

### Relevant identified uses of the substance or mixture and uses advised against

Not applicable.

## Section 2. Hazards identification

### OSHA/HCS status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Classification of the substance or mixture

- CARCINOGENICITY (inhalation) - Category 1A
- SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (respiratory tract) (inhalation) - Category 1

### GHS label elements

#### Hazard pictograms

![Hazard pictogram](image)

#### Signal word

Danger

#### Hazard statements

May cause cancer if inhaled.  
Causes damage to organs through prolonged or repeated exposure if inhaled. (respiratory tract)

#### Precautionary statements

**General**

Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand. Avoid excessive dust generation. Avoid breathing dust. Use only with adequate ventilation.

**Prevention**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not breathe dust. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

**Response**

Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention.

**Storage**

Store locked up. Store in a dry place.

### In case of emergency

Chemtrec: 1-800-424-9300  
Outside US: +1-703-527-3887  
1-203-295-2140

**Validation date:** 5/4/2015  
**Date of previous issue:** No previous validation.
Section 2. Hazards identification

Disposal
Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified
Not an acute hazard. May cause mechanical eye or skin irritation in high concentrations. Prolonged inhalation may cause lung injury. Material will become slippery when wet.

Section 3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Substance/mixture</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Substances</td>
<td>Hydrated aluminum silicate mineral</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>CAS number</th>
<th>% by weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>kaolin clay</td>
<td>1332-58-7</td>
<td>94 - 98</td>
</tr>
<tr>
<td>mica</td>
<td>12001-26-2</td>
<td>1 - 3</td>
</tr>
<tr>
<td>quartz</td>
<td>14808-60-7</td>
<td>1 - 3</td>
</tr>
</tbody>
</table>

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

**Description of necessary first aid measures**

Eye contact
Flush with plenty of water for at least 15 minutes, occasionally lifting upper and lower eyelids. If irritation develops and persists, seek medical attention.

Skin contact
Flush skin with plenty of water. Seek medical attention if irritation develops.

Inhalation
Move to fresh air. If respiratory distress develops, seek medical attention.

Ingestion
Unlikely to be toxic by ingestion. Rinse mouth out with water. Do not induce vomiting unless directed to do so by medical personnel. Seek medical attention if significant quantities have been ingested or symptoms occur.

**Most important symptoms/effects, acute and delayed**

**Potential acute health effects**

Eye contact
Not a primary eye irritant. May cause mechanical irritation.

Skin contact
No known significant effects or critical hazards.

Inhalation
No known significant effects or critical hazards.

Ingestion
No known significant effects or critical hazards.

**Over-exposure signs/symptoms**

Eye contact
No specific data.

Skin contact
No specific data.

Inhalation
No specific data.

Ingestion
No specific data.

**Indication of immediate medical attention and special treatment needed, if necessary**

Notes to physician
Treat symptomatically.

Specific treatments
No specific treatment.

Protection of first-aiders
No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
Section 4. First aid measures
See toxicological information (Section 11)

Section 5. Fire-fighting measures

**Extinguishing media**

| Suitable extinguishing media | This product is not combustible. Use an extinguishing agent suitable for the surrounding fire. |
| Unsuitable extinguishing media | No restrictions on extinguishing media for this product. |

| Specific hazards arising from the chemical | No specific fire or explosion hazard. This product is not flammable and does not support fire. |
| Hazardous thermal decomposition products | There are no hazardous decomposition products. |

| Special protective actions for fire-fighters | Product may become slippery when wet. |
| Special protective equipment for fire-fighters | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |

Section 6. Accidental release measures

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

**For non-emergency personnel**

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders**

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions**

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

**Methods and materials for containment and cleaning up**

**Small spill**

Minimize dust generation.

Move containers from spill area. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.

**Large spill**

Minimize dust generation.

Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

**Validation date**: 5/4/2015.  
**Date of previous issue**: No previous validation.
Section 7. Handling and storage

Precautions for safe handling

Protective measures Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Recommended Storage Store away from direct sunlight in dry conditions. Close container after use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>kaolin clay</td>
<td>OSHA PEL (United States). TWA 5 mg/m³ from respirable fraction</td>
</tr>
<tr>
<td></td>
<td>ACGIH TLV (United States). TWA 2 mg/m³ from respirable fraction</td>
</tr>
<tr>
<td>quartz</td>
<td>OSHA PEL (United States). TWA respirable fraction formula: 10 mg/m³/ % SiO₂ +2</td>
</tr>
<tr>
<td></td>
<td>ACGIH TLV (United States). TWA 0.025 mg/m³ from respirable fraction</td>
</tr>
<tr>
<td>mica</td>
<td>OSHA PEL (United States). TWA 3 mg/m³ from respirable fraction</td>
</tr>
<tr>
<td></td>
<td>ACGIH TLV (United States). TWA 3 mg/m³ from respirable fraction</td>
</tr>
</tbody>
</table>

Appropriate engineering controls If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures
Section 8. Exposure controls/personal protection

Hygiene measures
Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection
Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. Recommended: splash goggles

Skin protection

Hand protection
Protective gloves should be worn under normal conditions of use.

Body protection
Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection
Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection
Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Recommended: disposable particulate mask

Section 9. Physical and chemical properties

Appearance

Physical state Solid. [Powdered solid]
Color White.
Odor Odorless.
pH 4.8 [Conc. (% w/w): 10%]
Melting point Not available.
Boiling point Not applicable.
Flash point [Product does not sustain combustion.]
Evaporation rate Not applicable.
Vapor pressure Not applicable.
Vapor density Not applicable.
Relative density Not available.
Solubility in water Insoluble
Viscosity Not available.

Validation date 5/4/2015.
Date of previous issue No previous validation.
Section 10. Stability and reactivity

Reactivity
Not reactive.

Chemical stability
The product is stable.

Possibility of hazardous reactions
Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid
No specific data.

Incompatible materials
No specific data.

Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity
Not available.

Irritation/Corrosion
Not available.

Sensitization
Not available.

Mutagenicity
Not available.

Carcinogenicity
Not available.

Conclusion/Summary

KAOLIN: Published literature suggests that extremely high exposures to kaolin dust over a prolonged period of time can lead to a low category pneumoconiosis (with little respiratory disability) in a small number of workers.

CRSTALLINE SILICA: Overexposure to respirable crystalline silica dust can cause silicosis, a form of progressive pulmonary fibrosis. "Inhalable" crystalline silica (quartz) is listed by IARC as a Group I carcinogen (lung) based on "sufficient evidence" in occupationally exposed humans and sufficient evidence in animals. Crystalline silica is also listed by the NTP as a known human carcinogen. Some studies have not demonstrated a cancer association and controversy exists concerning the IARC and NTP classification.

Excessive exposure to any dust may aggravate pre-existing respiratory conditions.

Classification

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>OSHA</th>
<th>IARC</th>
<th>NTP</th>
</tr>
</thead>
<tbody>
<tr>
<td>quartz</td>
<td>-</td>
<td>1</td>
<td>Known to be a human carcinogen.</td>
</tr>
</tbody>
</table>

Reproductive toxicity
Not available.

Teratogenicity
Not available.

Specific target organ toxicity (single exposure)
Section 11. Toxicological information

Not available.

Specific target organ toxicity (repeated exposure)

<table>
<thead>
<tr>
<th>Name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>quartz</td>
<td>Category 1</td>
<td>Inhalation</td>
<td>respiratory tract</td>
</tr>
</tbody>
</table>

Aspiration hazard

Not applicable.

Information on the likely routes of exposure

Routes of entry anticipated: Oral, Inhalation.

Potential chronic health effects

General

Not available.

- Carcinogenicity
  - May cause cancer. Risk of cancer depends on duration and level of exposure.

- Mutagenicity
  - No known significant effects or critical hazards.

- Teratogenicity
  - No known significant effects or critical hazards.

- Developmental effects
  - No known significant effects or critical hazards.

- Fertility effects
  - No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Other information

Not available.

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

Other adverse effects

No known significant effects or critical hazards.
Section 13. Disposal considerations

**Disposal methods**
The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14. Transport information

<table>
<thead>
<tr>
<th>Regulatory information</th>
<th>UN number</th>
<th>Proper shipping name</th>
<th>Classes</th>
<th>PG*</th>
<th>Label</th>
<th>Additional information</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT Classification</td>
<td>Not regulated.</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>TDG Classification</td>
<td>Not regulated.</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>ADR/RID Class</td>
<td>Not regulated.</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>IMDG Class</td>
<td>Not regulated.</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>IATA-DGR Class</td>
<td>Not regulated.</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

PG* : Packing group

Section 15. Regulatory information

**U.S. Federal regulations**

**United States inventory (TSCA 8b)**
All components are listed or exempted.

**SARA 302/304**

**Composition/information on ingredients**
No products were found.

**SARA 311/312**
**Classification**
Delayed (chronic) health hazard

**State regulations**

**Massachusetts**
The following components are listed: Kaolin; mica; SILICA, CRYSTALLINE, QUARTZ

**New York**
None of the components are listed.

**New Jersey**
The following components are listed: KAOLIN; mica; SILICA, QUARTZ, QUARTZ (SiO2)

**Pennsylvania**
The following components are listed: Kaolin; QUARTZ (SiO2)

**California Prop. 65**

**Validation date** : 5/4/2015. **Date of previous issue** : No previous validation.
Section 15. Regulatory information

**WARNING:** This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

**International regulations**

- **Canada inventory**
  - All components are listed or exempted.

- **Europe inventory**
  - All components are listed or exempted.

- **International lists**
  - **Australia inventory (AICS):** All components are listed or exempted.
  - **China inventory (IECSC):** All components are listed or exempted.
  - **Japan inventory:** All components are listed or exempted.
  - **Korea inventory:** All components are listed or exempted.
  - **Malaysia Inventory (EHS Register):** All components are listed or exempted.
  - **New Zealand Inventory of Chemicals (NZIoC):** All components are listed or exempted.
  - **Philippines inventory (PICCS):** All components are listed or exempted.
  - **Taiwan inventory (CSNN):** All components are listed or exempted.

Section 16. Other information

<table>
<thead>
<tr>
<th>Hazardous Material Identification System (U.S.A.)</th>
<th>National Fire Protection Association (U.S.A.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>Flammability</td>
</tr>
<tr>
<td>Flammability</td>
<td></td>
</tr>
<tr>
<td>Physical hazards</td>
<td>Instability/Reactivity</td>
</tr>
<tr>
<td>Personal protection</td>
<td>Special</td>
</tr>
</tbody>
</table>

* Chronic Potential

The customer is responsible for determining the PPE code for this material.

**History**

- **Date of printing:** 5/4/2015.
- **Validation date:** 5/4/2015.
- **Date of previous issue:** No previous validation.
- **Version:** 0.01
- **Key to abbreviations**
  - ATE = Acute Toxicity Estimate
  - BCF = Bioconcentration Factor
  - GHS = Globally Harmonized System of Classification and Labelling of Chemicals
  - IATA = International Air Transport Association
  - IBC = Intermediate Bulk Container
  - IMDG = International Maritime Dangerous Goods
  - LogPow = logarithm of the octanol/water partition coefficient
  - UN = United Nations

**Information contact**

Vanderbilt Global Services, LLC
Corporate Risk Management
1-203-295-2143

Visit www.vanderbiltminerals.com for more information.

**Notice to reader**

Information presented herein has been compiled from sources considered to be dependable and is accurate and reliable to the best of our knowledge and belief but is not guaranteed to be so. Nothing herein is to be construed as recommending any practice or any product in violation of any patent or in violation of any law or regulation. It is the user's responsibility to determine for himself the suitability of any material for a specific purpose and to adopt such safety precautions as may be necessary. We make no warranty as to the results to be obtained in using any material and, since conditions of use are not under our control, we must necessarily disclaim all liability with respect to the use of any material supplied by us.

**Validation date:** 5/4/2015.  **Date of previous issue:** No previous validation.