# Vanderbilt Minerals, LLC

# **SAFETY DATA SHEET**

GHS United States English

## Section 1. Identification

Product name	PEERLESS® 1 CLAY	In case of emergency
Code	09804	1-203-295-2140
Supplier/Manufacturer	Vanderbilt Minerals, LLC 33 Winfield Street Norwalk, CT 06855	Chemtrec: 1-800-424-9300 Outside US: +1-703-527-3887
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	
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.
Response	Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention.
Storage	Store locked up.
Disposal	Dispose of contents and container in accordance with all local, regional, national and

# Section 2. Hazards identification

# 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

### Substance/mixture

Substance

**Chemical name** 

Hydrated aluminum silicate mineral

Ingredient name	CAS number	% by weight
kaolin clay mica	1332-58-7 12001-26-2	94 - 98 1 - 3
quartz	14808-60-7	1 - 3

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 guantities 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.
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#### **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.

#### See toxicological information (Section 11)

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# 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 con	tainment 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.

# Section 7. Handling and storage

Precautions for safe handling

# Section 7. Handling and storage

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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**

Ingredient name	Exposure limits
kaolin clay	OSHA PEL (United States).
-	TWA 5 mg/m <sup>3</sup> from respirable fraction
	ACGIH TLV (United States).
	TWA 2 mg/m <sup>3</sup> from respirable fraction
quartz	OSHA PEL (United States).
•	TWA: 0.05 mg/m <sup>3</sup> from respirable fraction
	ACGIH TLV (United States).
	TWA: 0.025 mg/m <sup>3</sup> from respirable fraction
mica	OSHA PEL (United States).
	TWA 3 mg/m <sup>3</sup> from respirable fraction
	ACGIH TLV (United States).
	TWA 3 mg/m <sup>3</sup> from respirable fraction

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. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below established levels below recommended exposure limits. If user operations generate dust, use ventilation to keep exposure to airborne contaiminants below the exposure limit.
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

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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
Personal protective equipment (Pictograms)	

# Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	Solid. [Powdered solid]
Color	White.
Odor	Odorless.
рН	4.6 [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.

### 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.

CRYSTALLINE 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.

#### **Classification**

Product/ingredient name	OSHA	IARC	NTP
crystalline silica respirable	-	1	Known to be a human carcinogen.

#### Reproductive toxicity

Not available.

#### **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure) Not available.

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# Section 11. Toxicological information

#### Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
quartz	Category 1	Inhalation	respiratory tract

Aspiration hazard

Not applicable.

# Information on the likely routes of exposure

Routes of entry anticipated: Oral, Inhalation.

#### Potential chronic health effects

General	Excessive exposure to any dust may aggravate pre-existing respiratory conditions.
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.
<b>Developmental effects</b>	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

### Section 13. Disposal considerations

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

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	Not regulated.	-	-	-		-
TDG Classification	Not regulated.	-	-	-		-
ADR/RID Class	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-
IATA-DGR Class	Not regulated.	-	-	-		-

PG\* : Packing group

### Section 15. Regulatory information

#### **U.S. Federal regulations**

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

<u>SARA 302/304</u>	
Composition/information o	n ingredients
No products were found.	
<u>SARA 311/312</u>	
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)
<u>California Prop. 65</u>	
	uct can expose you to crystalline silica respirable, which is known to the State of California nore information go to www.P65Warnings.ca.gov.
International regulations	

Canada inventory	All components are listed or exempted.
Europe inventory	All components are listed or exempted.
International lists	

### Section 15. Regulatory information

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 Chemical Substances Inventory (TCSI): All components are listed or exempted.

### Section 16. Other information

Hazardous Material Identification System (U.S.A.) Health Flammability Physical hazards \* Chronic Potential The customer is responsible for determining the PPE code for this material. For more information on HM

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

#### **History**

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Version	0.02
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 = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) 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

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