

**MATERIAL SAFETY DATA SHEET – CRUDE VERMICULITE (ALL GRADES)**

**SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1. Product Identifier**

Product Name : Namekara Vermiculite (All Grades)  
Substance : Crude Vermiculite  
CAS No. : 1318-00-09

**1.2. Relevant identified uses of the Substance or Mixture and uses advised against**

- Fire resistant boards and refractory mouldings and shapes.
- Inert carrier in animal feed.
- Growing Media additives and Horticultural soil improver.
- Insulation Material in construction and light weight aggregates.

**Uses advised against and reason.**

- External cavity wall insulation- Can absorb moisture.

**1.3. Details of the supplier of the safety data sheet**

**Namekara Mining Company Ltd**  
Off Mbale-Tororo Road  
11kms from Mogodesi Trading Centre  
Butiru - Bugobero  
Manafwa District  
P.O BOX 2368, Mbale Uganda.  
Email: [admin@namekara.com](mailto:admin@namekara.com)  
Tel: +256 785687705

**1.4. Emergency Telephone Number**

Contact : +256 785687705  
Language : English  
Availability : Mon-Fri, 7am-7pm ((EAT))

**SECTION 2. HAZARD IDENTIFICATION**

**2.1. Classification of the substance/Mixture**

**2.1.1. Classification according to Regulation (EC) No. 1272/2008**

Namekara Vermiculite is a Non-Hazardous substance and does not meet the criteria for classification in any hazard class.

**2.1.2. Additional information**

Section 8 gives more information on workplace exposure limits.

**2.2. Label Elements**

**2.2.1. Labeling according to Regulation (EC) No. 1272/2008**

**Hazard Pictogram(s)**

None

**Signal Word**

None

**Hazard Statement (s)**

None

**Precautionary Statement (s)**

None

**Supplement Hazard Information**

None

**2.3 Other hazards**

**None**

This substance does not contain any components fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria. Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties

in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substances

Material	CAS No.	Typical Composition
Vermiculite*	1318-00-9	100%
Crystalline Silica	14808-60-7	<0.01%

\*Vermiculite is a hydrated Magnesium-Aluminum-Iron Silicate.

#### 3.2. Mixtures

Not applicable

### SECTION 4. FIRST AID MEASURES

#### 4.1. Description of first aid measures

##### 4.1.1. General Information

No serious adverse effects are anticipated. If seeking medical advice, show this safety data sheet to the medical professional.

##### 4.1.2. Following Inhalation

If large amounts of dust are inhaled, immediately remove exposed person to fresh air. Where distress or difficulty in breathing is observed administer oxygen or CPR and seek immediate medical attention.

##### 4.1.3. Following Skin contact

This material is considered harmless, however if irritation occurs wash affected skin with plenty of running water and soap. Seek medical attention if irritation persists after washing.

##### 4.1.4. Following eye contact

Immediately flush with clean running water while holding the eye lids apart and if redness, irritation, or pain persists seek medical attention.

##### 4.1.5. Following Ingestion

Vermiculite is not harmful as it is used as a carrier in Animal feed. There are no known adverse effects for small quantities and hence first aid measures are not usually required.

##### 4.1.6. Self-Protection of the first aider

Loose material can be a potential slip hazard.  
Wear gloves to protect against skin irritation.

#### 4.2. Most important symptoms and effects, both acute and anticipated.

##### 4.2.1. General information

Significant acute and delayed effects are not anticipated.

##### 4.2.2. Symptoms and effects

When properly dry, dust from this product may cause irritation to eyes, nose, and throat.

#### 4.3. Indication of any immediate medical attention and special treatment needed.

##### 4.3.1. Specific treatment

Treat symptomatically.

##### 4.3.2. Notes to the doctor

No special antidote required.

### SECTION 5. FIRE FIGHTING MEASURES

#### 5.1. Extinguishing media

##### 5.1.1. General Information

Vermiculite is a non-combustible substance, however packaging and surrounding may be combustible.

##### 5.1.2. Suitable extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

##### 5.1.3. Unsuitable extinguishing media

No product specific restrictions.

#### 5.2. Special hazards arising from the substance or mixture.

##### 5.2.1. General information

Loose material may be a slip hazard.

##### 5.2.2. Hazardous combustion products

Not applicable, Material is non-combustible substance.

##### 5.2.3. Advice for fire fighters

No specific firefighting equipment is required except for the packaging and surrounding.

## SECTION 6. ACCIDENTAL RELEASE MEASURE

### 6.1. Personal precautions, protective equipment, and emergency procedures

#### 6.1.1. For non-emergency personnel

Use personal protective equipment to protect your eyes, skin, and clothing.  
Loose material may be a slip hazard.

#### 6.1.2. For emergency responders

Use personal protective equipment.

### 6.2. Environmental precautions

Prevent large amounts of the product from entering drains, sewers, or watercourses.  
Protect from wind to prevent dispersion and dust creation.

### 6.3. Methods and material for containment and cleaning up.

#### 6.3.1. For Containment

Contain and prevent dispersion by erecting temporary barriers.

#### 6.3.2. For cleaning up

Sweep or vacuum up and transfer in a suitable, labeled container. Avoid dust creation and wind dispersal by wet sweeping.

#### 6.3.3. Disposal and other information

Clear spills immediately to reduce slip hazard.  
Dispose of in compliance with local and national regulations

#### 6.3.4. Reference to other sections

Suitable personal protective equipment is quoted in section 8.  
Further information on waste and disposal is given in section 13.

## SECTION 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

#### 7.1.1. Protective measures

Spilt products should be treated as a slip hazard.  
Handle the product in a manner that minimizes the generation of dust hence ensure usage of engineering controls as well as ensure adequate ventilation in the working areas.  
Wear personal protective equipment.  
Remove contaminated clothing and protective equipment before entering eating areas.

#### 7.1.2. Measures to prevent fire.

This product is non-flammable. No special fire protection measures are necessary.

#### 7.1.3. Measures to prevent aerosol and dust generation.

Reseal packaging when not in use.  
Use engineering controls (e.g. local dust extraction) to provide effective dust control to ensure compliance with the current occupational exposure limits.

#### 7.1.4. Measures to protect the environment.

Do not dispose of excess material or spillages in drains.

#### 7.1.5. Advice on general occupational Hygiene

Wash hands after using the product and regularly during use.  
Do not eat, drink, or smoke in working areas when using this product.  
Remove contaminated clothing and protective equipment before entering eating places.

### 7.2. Conditions for storage, including any incompatibilities.

#### 7.2.1. Technical measures and storage conditions

Store in original packaging.  
Protect packaging from damage.

#### 7.2.2. Requirements for storage rooms and vessels

Store in dry conditions and keep containers closed.  
Use engineering controls (e.g. local dust extraction) to provide effective dust control to ensure compliance with the current occupational exposure limits.

#### 7.2.3. Specific end use(s)

##### Recommendations

Observe instructions for use.  
Wear a suitable mask if local dust extraction is not in us.  
Wear protective clothing including gloves and goggles.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters.

Substance	CAS Number	EH40/2005 Workplace Exposure limits
Vermiculite	1318-00-09	Substance not listed in EH40/2005 For <b>WELs</b> , treat as nuisance dust (EH40 section 44)

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

Local dust extraction

### 8.2.2. Individual protection measures

- Eyes:** Goggles-no specific type recommended  
**Hands:** Protective gloves if required- no specific type recommended  
**Skin:** For workers with sensitive skin, general protective overalls are recommended  
**Respiratory:** Use of dust masks of category FFP2 and EN149 compliant.  
Provision of dust suppression/extraction and ventilation where dust is produced is recommended.

### 8.2.3. Environmental exposure

Use appropriate engineering controls to prevent dust from escaping to the atmosphere.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

a) Physical state	Solid Flakes
b) Colour	Golden brown
c) Odour and Odour threshold	None
d) Melting point	1,330°C
e) Boiling point	Not Applicable
f) Flammability	Not flammable
g) Lower and upper explosive limits	Not applicable
h) Flash point	Not applicable-Not flammable
i) Auto-ignition temperature	No data available
j) Decomposition temperature	No data available
k) PH	5.1-7.5
l) Kinetic Viscosity	Not applicable
m) Solubility-in water	Not soluble
n) Partition coefficient; n-octanol/water	No data available
o) Vapour pressure	Not applicable
p) Relative density	350-800Kg/M <sup>3</sup>
q) Relative Vapour density	Not applicable

### 9.2. Other information

Not available

## SECTION 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

Not likely to react if stored and handled as recommended.

### 10.2. Chemical stability

Stable under normal conditions

### 10.3. Possibility of hazardous reactions

If used as recommended no hazardous reactions are to be expected.

### 10.4. Conditions to avoid.

Self-attrition may lead to the formation of dust.  
High humidity may lead to the product absorbing water.

### 10.5. Incompatible materials

Avoid contact with strong oxidizers and strong acids.

### 10.6. Hazardous decomposition products

None is expected.

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### 11.1.1. Acute Toxicity

Classification criteria are not met.

#### 11.1.2. Skin corrosion/irritation

No known hazards. Irritation is not usually anticipated with Vermiculite product save for the dust.

#### 11.1.3. Serious eye damage/irritation

Particulate matter may cause physical damage and irritation.

#### 11.1.4. Respiratory or sensitization

Dust may cause minor transient respiratory irritation at high concentrations.

#### 11.1.5. Germ cell mutagenicity

No known hazards.

**11.1.6. Carcinogenicity**

No known hazards

**11.1.7. Reproductive toxicity**

No known hazards.

**11.1.8. STOT-single exposure**

No known hazards

**11.1.9. STOT-repeated exposure**

The quartz content of this product is <1% with the inhalable/respirable fraction much lower. However repeated exposure to respirable crystalline silica may cause lung and respiratory diseases.

**11.1.10. Aspiration Hazard**

Dust may cause irritation at high concentrations.

**11.2. Information on likely routes of exposure**

The most likely route of exposure is by skin contact or via airborne dust product through handling.

**11.3. Information on other hazards**

**11.3.1 Endocrine disrupting properties**

The product does not contain any components that exhibit endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU)2018/605 in quantities of 0.1% or more.

**11.3.2 Other information**

None

## SECTION 12. ECOLOGICAL INFORMATION

**12.1. Toxicity**

No adverse effects are expected on aquatic life. Vermiculite is commonly used as a soil conditioner as well as a carrier material in animal feeds.

**12.2. Persistence and degradability**

This product is not readily biodegradable.

**12.3. Bioaccumulative potential**

Not applicable

**12.4. Mobility in soil**

Not applicable

**12.5. Result of PBT and vPvB assessment**

This substance/mixture is not classified as PBT or vPvB according to EU criteria.

**12.6. Other adverse effects**

No adverse effects expected if recommendations and advice on storage and handling are observed.

## SECTION 13. DISPOSAL CONSIDERATIONS

**13.1. Waste treatment methods.**

This product is not classified as hazardous waste under European commission directive 2008/98/EC. Dispose of according to national and local regulations.

## SECTION 14. TRANSPORT INFORMATION

**14.1. UN number**

Not applicable

**14.2. UN proper shipping name**

Not applicable

**14.3. Transport hazard class (es)**

Not classified.

**14.4. Packaging group**

Not classified.

**14.5. Environmental hazards**

Not classified.

**14.6. Special precautions**

Not applicable.

**14.7. Maritime Transport in bulk according to IMO instruments (Annex II of MARPOL and the IBC Code)**

Not applicable.

**SECTION 15. REGULATORY INFORMATION**

**15.1. Safety, health, and environmental regulations/legislation specific for the substance or mixture  
EU REGULATIONS**

**Regulation (EC) No. 2037/2000 (substances that deplete ozone)**

Not applicable

**Regulation (EC) No. 850/2004 (persistent organic pollutants)**

Not applicable

**Regulation (EC) No. 689/2008 (concerning the export and import of dangerous chemicals)**

Not applicable

**Regulation (EC) No. 1272/2008 (Classification, Labelling and Packaging of substances and mixtures)**

This material does not meet any of the criteria.

**Regulation (EC) No. 1907/2006 (Registration, Evaluation, Authorization & Restriction of Chemicals (REACH))**

Vermiculite is a naturally occurring product that has not been chemically modified.

Article 2 (7) (b) and Annex V paragraph 7, of the REACH regulations exempts this material from REACH registration.

**US FEDERAL REGULATIONS**

Listed on the United States TSCA (Toxic Substances Control Act) inventory.

**Source of Reference for OELs**

HSE EH40 for Workplace Exposure Limits

**15.2. Chemical safety assessment**

No chemical safety assessment has been done as the substance is exempt from REACH registration.

**SECTION 16. OTHER INFORMATION**

**16.1. Training advice**

All employees should be given adequate training in the proper use and handling of this product and any precautions and protective equipment required under the applicable regulations.

**SECTION 17. LIABILITY**

Namekara Mining Company Uganda Limited believes this information to be accurate and reliable as at the date of publication. However, no representation, warranty, or guarantee is made or implied in respect of the accuracy, reliability or completeness of the information contained herein.

It is the user's responsibility to satisfy themselves as to the suitability and completeness of such information for their own particular uses.

**DATE OF ISSUE: May 17, 2024**

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