

Revision: 25<sup>th</sup> February 2019 version 2.1 supersedes version 2.0 – 13.02.19  
A Safety Data Sheet is not required for this product under Article 31 of REACH.

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**Product name:** MICALITE BOARD  
**Substance:** The product is not classified according to the CLP/REACH regulations as it is defined as an article.  
**EC No.:** Not Applicable  
**REACH Registration:** Not Applicable  
**CAS No.:** Not Applicable  
**Other names:** Vermiculite Board

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

**Identified uses:**

Refractory Board up to 1100 °C (Service Temperature).  
Wood Burning Stove Insulation.  
Wall Insulation panels.

**Uses advised against and reason:**

External insulation – can absorb moisture.

### 1.3 Details of the supplier of the safety data sheet

**Supplier:** Dupré Minerals Limited  
**Address:** Spencroft Road, Newcastle-under-Lyme, Staffordshire  
**Postcode / Country:** ST5 9JE / United Kingdom  
**Telephone / Fax:** +44 (0)1782 383000 / 383101  
**Email:** [DupreTechnical@goodwingroup.com](mailto:DupreTechnical@goodwingroup.com) – Email subject: *SDS Enquiry*  
**National Contact:** [UKREACHCA@hse.gov.uk](mailto:UKREACHCA@hse.gov.uk)

### 1.4 Emergency telephone number

**Contact:** +44 (0)1782 383000  
**Language:** English  
**Opening hours:** Available Monday to Friday (not bank holidays), 8 am to 5 pm (UK time)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### 2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]:

The product is not classed according to the CLP regulation as it is an article.

#### 2.1.2 Additional Information

[Section 8](#) gives further information on the workplace exposure limit for mechanically generated dust.

### 2.2 Label elements

#### 2.2.1 Labelling according Regulation (EC) No 1272/2008 [CLP]:

**Hazard Pictogram(s)**

Not Applicable

**Signal word**

Not Applicable

**Hazard statement(s)**

Not Applicable

**Precautionary statement(s)**

Not Applicable

**Supplemental Hazard Information**

Not Applicable

### 2.3 Other hazards

None.

This substance does not meet the criteria for PBT or vPvB according to Annex XIII of the REACH regulations.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not Applicable. (Also see section 3.2)

### 3.2 Mixtures

Not applicable - Micalite boards are classed as an 'Article' and do not contain any substances listed on the candidate list of Substances of Very High Concern. A Safety Data Sheet is not required for this product under Article 31 of REACH.

- Exfoliated vermiculite used in Micalite boards is the thermally expanded form of a beneficiated mineral ore classified as a UVCB material under REACH. (Unknown or Variable composition, Complex reaction products or of Biological materials.)
- Vermiculite (CAS: 1318-00-9) is exempt from REACH registration in accordance with Annex V.7
- The Mineral Binding Agents used in this article are either registered or exempt under REACH.

## 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 data sheet to the medical professional.

#### 4.1.2 Following inhalation:

If large amounts of mechanically generated dust are inhaled, remove any exposed person(s) to fresh air, keep warm and at rest.

If breathing problems occur administer oxygen or CPR as appropriate. Seek immediate medical attention.

#### 4.1.3 Following skin contact:

This material is considered harmless; however, if irritation occurs then wash affected skin with plenty of water.

Get medical attention if irritation persists after washing.

#### 4.1.4 Following eye contact:

Immediately flush with clean water or eye wash solution, holding the eyelids apart.

Seek medical attention if redness, irritation or pain persists.

#### 4.1.5 Following ingestion:

There are no known adverse effects for small quantities and hence first aid measures are not usually required.

For larger quantities, wash mouth out with water and give water to drink. Do not induce vomiting.

If gastrointestinal symptoms occur then seek medical advice.

#### 4.1.6 Self-protection of the first aider:

Wear gloves to protect against skin irritation.

### 4.2 Most important symptoms and effects, both acute and delayed

#### 4.2.1 General information:

Significant acute or delayed effects are not anticipated.

#### 4.2.2 Symptoms and effects:

Mechanically generated dust from this product may cause irritation to eyes, nose or throat.

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

#### 4.3.1 Specific treatment:

Treat symptomatically.

#### 4.3.2 Notes for the doctor:

No special antidote required.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****5.1.1 General information:**

Non-combustible substance; however, packaging and surrounding materials 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:**

No additional information.

**5.2.2 Hazardous combustion products:**

Not applicable – non-combustible substance.

**5.3 Advice for firefighters**

No specific fire fighting equipment is required.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures****6.1.1 For non-emergency personnel:**

Use personal protective equipment ([Section 8](#)) to protect eyes, skin and clothing.

**6.1.2 For emergency responders:**

Use personal protective equipment, see [Section 8](#).

**6.2 Environmental precautions**

Prevent large quantities of product from entering drains, sewers or watercourses.

Protect from wind to prevent airborne dust creation.

**6.3 Methods and material for containment and cleaning up****6.3.1 For containment:**

Clean up mechanically generated dust promptly to prevent dispersal by local traffic.

**6.3.2 For cleaning up:**

Wet Sweep or vacuum up and transfer in to a suitable, labelled container.

Avoid airborne dust dispersal by, for example, wet sweeping.

**6.3.3 Disposal and other information:**

Dispose of in compliance with local and national regulations.

**6.4 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:**

Consideration should be given to the weight and tensile strength of large boards prior to manual handling.

Lifting of a large board from a single point should be avoided. Large boards should be handled evenly by more than one person or by vacuum lifter to avoid the board snapping during handling.

In working areas do not eat, drink or smoke when using this product.

Remove contaminated clothing and protective equipment before entering eating areas.

Wear appropriate personal protective equipment (see [Section 8](#)).

## 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:

Where dust may be generated, use engineering measures (e.g. local dust extraction) to provide effective dust control in order 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 into the drains as the alkaline binders may affect the pH of the water.

## 7.1.5 Advice on general occupational hygiene:

Wash hands after use and regularly during use especially if exposed to dust.

In working areas do not eat, drink or smoke when using this product.

Remove contaminated clothing and protective equipment before entering eating areas.

## 7.2 Conditions for storage, including any incompatibilities

### 7.2.1 Technical measures and storage conditions:

Protect packaging from damage.

### 7.2.2 Requirements for storage rooms and vessels:

Store in dry conditions.

The use of engineering measures (e.g. local dust extraction) is recommended to provide effective dust control in order to ensure compliance with the current Occupational Exposure Limits.

### 7.2.3 Further information on storage:

None.

## 7.3 Specific end use(s)

### Recommendations:

Wear a suitable mask if local dust extraction is not in place.

Wear protective clothing including gloves and goggles.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Chemical Name	CAS No.	Workplace Exposure Limit (EH40/2005)
Vermiculite	1318-00-9	Substance not listed in EH40/2005 For WELs, treat as nuisance dust (section 44) 10 mg m <sup>-3</sup> (Inhalable dust) / 4 mg m <sup>-3</sup> (Respirable dust)

### 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls:

Local dust extraction.

#### 8.2.2 Individual protection measures:

**Hands:** Protective gloves if required – no specific type recommended.

**Eyes:** Goggles or mask – no specific type recommended.

**Skin:** For workers who suffer from dermatitis or sensitive skin, protective overalls are recommended.

**Respiratory:** In cases of prolonged exposure to airborne dust concentrations, wear respiratory protective equipment that complies with European or national legislation i.e. Type FFP2.

**General:** Protective overalls. Soiled clothing must be adequately laundered to avoid becoming a dust source.

#### 8.2.3 Environmental exposure controls:

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

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- a) Appearance: Beige/Brown pressed board
- b) Odour: Odourless
- c) Odour threshold: Not applicable - odourless

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|--|--|
| d) pH:   | No data available  |
| e) Melting point/freezing point;                 | Melting point > 1100 °C (Service Temperature)  |
| f) Initial boiling point and boiling range:      | Not applicable - Solid at room temperature   |
| g) Flash point:                                  | Not applicable – Not flammable   |
| h) Evaporation rate:                             | Not applicable - Solid at room temperature   |
| i) Flammability (solid, gas):                    | Not flammable  |
| j) Upper/lower flammability or explosive limits: | No data available  |
| k) Vapour pressure:                              | No data available  |
| l) Vapour density:                               | No data available  |
| m) Relative density:                             | Product board density varies with grade:<br>DMS600 Board ~650 kg m <sup>-3</sup> .<br>DMS750 Board ~750 kg m <sup>-3</sup><br>DMS1200 Board ~1150 kg m <sup>-3</sup> |
| n) Solubility(ies):                              | Binders may be slightly soluble in water   |
| o) Partition coefficient: n-octanol/water:       | No data available  |
| p) Auto-ignition temperature:                    | No data available  |
| q) Decomposition temperature:                    | No data available  |
| r) Viscosity:                                    | Not applicable - Dry solid at room temperature   |
| s) Explosive properties:                         | Not explosive  |
| t) Oxidising properties:                         | No data available  |

## 9.2 Other information

None available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Not likely to react adversely 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

Mechanical action such as drilling or sawing may lead to the formation of dust.

High humidity will lead to the product absorbing water.

### 10.5 Incompatible materials

Avoid contact with strong oxidisers and acids.

### 10.6 Hazardous decomposition products

None expected.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### a) Acute Toxicity

Classification criteria are not met.

#### b) Skin corrosion/irritation

No known hazards. Irritation is not anticipated.

#### c) Serious eye damage/irritation

Mechanically generated particulate matter may cause physical damage and irritation.

#### d) Respiratory or skin sensitisation

Dust may cause minor transient respiratory irritation at high concentrations.

#### e) Germ cell mutagenicity

No known hazards.

**f) Carcinogenicity**

No known hazards

**g) Reproductive toxicity**

No known hazards

**h) STOT-single exposure**

No known hazards.

**i) STOT-repeated exposure**

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

**j) Aspiration hazard**

Dust may cause irritation at high concentrations.

**11.2 Information on likely routes of exposure**

The most likely route for exposure is via airborne dust produced by self attrition or, for example, drilling or sanding.

**11.3 Other information**

None.

## SECTION 12: Ecological information

**12.1 Toxicity**

No data available

**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 Results of PBT and vPvB assessment**

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

**12.6 Other adverse effects**

No adverse effects expected if regulations and advice for storage and handling are observed.

## SECTION 13: Disposal considerations

**13.1 Waste treatment methods**

This product is not classified as hazardous waste under the EC Directive 2008/98/EC or as hazardous waste under the Hazardous Waste (England and Wales) Regulations SI 2005 No.894.

Dispose of according to national / regional legislation.

## 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 Packing group**

Not classified.

**14.5 Environmental hazards**

Not classified.

**14.6 Special precautions for user**

Not applicable.

**14.7 Transport in bulk according to 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.

Micalite boards are classed as an 'Article' and do not contain any substances listed on the candidate list of Substances of Very High Concern.

**Registration, Evaluation, Authorisation & Restriction of Chemicals (REACH)**

Vermiculite used in Micalite boards 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**

Vermiculite is 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 carried out by the supplier.

**SECTION 16: Other information****i. Indication of changes**

Version 2.1

Correction to typo in Section 9.1.e

Version 2.0

- a) Comprehensive update of SDS format.
- b) Statement of classification as an Article under CLP not containing any substances listed on the candidate list of SVHC's
- c) Review of hazard classification with regard to the latest upstream supplier's SDS.
- d) Review of hazard classification with respect to known end use applications.

**ii. Abbreviations and acronyms**

WEL: 8 h TWA – Workplace Exposure Limit: 8 hour Time Weighted Average.

UVCB – Unknown or Variable composition, Complex reaction products or of Biological materials.

**iii. Key Literature References and Sources of Data**

- a) Guidance Note EH40 Occupational Exposure Limits is published annually by the Health and Safety Executive.  
The latest relevant limits should be observed.
- b) HS(G) 37 1993 "An introduction to Local Exhaust Ventilation" and  
Guidance Note EH44 2013 "Dust in the Work Place" are both available from HM Stationery Office.
- c) Advice on respiratory protective equipment is also given in BS EN 529:200.
- d) EN166: 2002 Personal Eye Protection.

**iv. Procedure used to derive the classification for mixtures according to Regulation (EC) No 1272/2008 CLP**

This material is not classified under this regulation; respirable quartz content <<0.1% of the product.

**v. 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 applicable regulations

*The information given on this Safety Data Sheet is to the best of Dupré Minerals' knowledge and belief, accurate and reliable as of the date indicated. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the users' responsibility to satisfy themselves as to the suitability and completeness of the information for their own particular use.*