

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY:**

PRODUCT NAME: Verlite (Vermiculite)

SUPPLIER: John Burn & Co. (B'ham) Ltd  
74 Albert Road, Stechford, Birmingham, B33 9AJ

TEL: 0121 508 4144

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**2. COMPOSITION/INFORMATION ON INGREDIENTS:**

Chemical Name	Contents %	OES 8hr TWA	OES 8hr TWA
Vermiculite			
(Magnesium, Aluminium Iron Silicate)	>98	10 (mg/m <sup>3</sup> )	1 (mg/m <sup>3</sup> ) Respirable
Silica	approx. 1		0.4 (mg/m <sup>3</sup> )

**3. HAZARDS IDENTIFICATION (See also section 11)**

Routes of exposure: Inhalation and Ingestion

Health Hazards:

Symptoms of exposure: (acute effects) None known

Symptoms of exposure: (long term effects) Possible impairment of lung function after long term exposure to dust levels in excess of the OES-TWA

Medical conditions aggravated by exposure: Any condition aggravated by dust (eg. asthma or pneumoconiosis).

Known Synergists: None known.

Explosion hazards: None.

Fire hazards: None.

Corrosion hazards: None.

**4. FIRST AID MEASURES:**

Skin contact: No special requirements.

Eye contact: Irrigate thoroughly with water.

Ingestion: No special requirements.

Inhalation: No special requirements.

Injection under pressure: Not applicable.

Antidote: Not applicable.

Advice to physicians: Not applicable.

**5. FIRE FIGHTING MEASURES:**

Extinguishing media: Not applicable.

Special exposure hazard: Not applicable.

Protective equipment: Not applicable.

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**6. ACCIDENTAL RELEASE MEASURES:**

Leaks and spills: Vacuum spillages  
Personal protection: No special requirements.

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**7. HANDLING AND STORAGE:**

Handling precaution: Avoid high dust levels.  
Storage precautions: No special precautions.  
Shelf life: Indefinite.

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**8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:**

Exposure controls: Maintain dust levels below OES-TWA limits. (See Section 2)  
Personal protection: Dust masks conforming to EN149 FFP2S should be used if OES limits are exceeded.

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**9. PHYSICAL AND CHEMICAL PROPERTIES:**

Appearance: Flakes or powder  
Odour: Odour free  
Boiling point °C: Not applicable  
Melting Range °C: Approx. 1300°C  
Flash Point °C: Not applicable  
Flammability: Non flammable  
Oxidising properties: None  
Vapour pressure mPa: Not oxidising  
Density at 20°C (Kg/m<sup>3</sup>): Variable depending on grade  
Solubility: Negligible  
Specific gravity: 2.8 (water = 1)  
Evaporation Rate: Zero (Butylacetate = 1)  
Partition Coefficient: Not applicable (octan-1-ol/water)  
pH value (10% aqueous slurry): Approx. 9  
Viscosity: Not applicable  
Explosion limited: Not applicable

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**10. STABILITY AND REACTIVITY:**

Chemical Stability: Excellent  
Material to avoid: Concentrated alkali metal hydroxides  
Concentrated mineral acids  
Hazardous decomposition products: None  
Hazardous polymerisation: Not applicable

**11. TOXICOLOGICAL INFORMATION:**

Acute Toxicity:

Oral LD50 (rat) (mg/kg): Not known, but since vermiculite is an inert material, LD50/LC50 values would be

Dermal LD50 (rat) (mg/kg): high

Inhalation LC50 4hr (rat) (mg/l):

Irritation to:

Skin: No special irritation known.

Eyes: No special irritation known.

Respiratory: Chronic long term problems are possible.

Sensitisation: None known.

Appraisal: Not applicable.

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**12. ECOLOGICAL INFORMATION:**

Ecotoxicity: No information available, but since vermiculite is a stable un reactive

Persistence : insoluble material, no ecological problem in known or expected.

Appraisal: Not applicable.

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**13. DISPOSAL CONSIDERATIONS:**

Containment Techniques: No special requirements.

Clean-up procedures: Vacuum preferred but simpler methods are acceptable.

Waste Disposal: No special precautions necessary other than compliances with local regulations for non-hazardous materials.

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**14. TRANSPORT INFORMATION:**Not applicable as material in classified as non-hazardous.

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**15. REGULATORY INFORMATION:**Not applicable as material is classified as non-hazardous.

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**16. OTHER INFORMATION:**

Disclaimer: The information contained in this data sheet is, to the best of our knowledge, true and accurate, but any recommendations or suggestions which may be made are without guarantee, since the conditions of use are beyond our control,. Furthermore, nothing contained herein shall be construed as a recommendation

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to use any product in conflict with existing patents covering any material or is use.