

# DUPRÉ VERMICULITE

## MATERIAL SAFETY DATA SHEET (MSDS)

### 1. DESCRIPTION OF MATERIAL

<b>Mineral Name</b>	Vermiculite
<b>CTCN Number</b>	680620 90 0 00
<b>CAS Number</b>	1318-00-9
<b>EEC Number</b>	Not applicable (natural mineral)
<b>EINECS Number</b>	3101276 (for inert natural minerals)
<b>RTECS Number</b>	Not applicable (non-toxic)
<b>Product Type</b>	Mineral powder
<b>Composition</b>	Magnesium aluminium iron silicate
<b>Supplier</b>	Hoben International Ltd Spencroft Road Newcastle-under-Lyme Staffs. ST5 9JE
<b>Emergency Telephone</b>	<b>+44 (0)1782 3833000</b>

### Occupational Exposure Standards

10 mg/m<sup>3</sup> - Total inhalable dust

1 mg/m<sup>3</sup> - Respirable dust

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

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

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

### 5. FIRE FIGHTING MEASURES

Extinguishing media	Not applicable
Special exposure hazard	Not applicable
Protective equipment	Not applicable

### 6. ACCIDENTAL RELEASE MEASURES

Leaks and spills	Vacuum spillages
Personal protection	No special requirements

### 7. HANDLING AND STORAGE

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

### 3. HEALTH HAZARD IDENTIFICATION

Routes of exposure	Inhalation and Ingestion
Health Hazards	
Symptoms of exposure (Acute effects)	None known
Symptoms of exposure (Long term exposure)	Possible impairment of lung function after long term exposure to dust levels in excess of the OES-TWA
Medical conditions aggravated by exposure	Any conditions aggravated by dust (e.g asthma or pneumoconiosis)
Known synergists	None Known
Explosion hazards	None
Fire hazards	None
Corrosion hazards	None

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure control	Maintain dust levels below OES-TWA limits
Personal protection	Dust masks conforming to EN149 FFP2S should be used if OES limits are exceeded

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Normal State	Solid
Appearance and odour	Flakes or powder, odour free
Boiling point °C	Not applicable
Melting point °C	Approximately 1300°C
Flash point °C	Not applicable

Flammability	Non flammable
Oxidising properties	None
Vapour pressure mPa	Non oxidising
Density at 20°C (Kg/m <sup>3</sup> )	Variable depending on grade
Solubility	Negligible
Specific gravity (Water=1)	2.8
Evaporation rate (Butylacetate = 1)	Zero
Partial coefficient (Octan-1-ol/water)	Not applicable
pH value of 10% aqueous slurry	Approximately 9
Viscosity	Not applicable
Explosion limited	Not applicable

### 10. STABILITY AND REACTIVITY

Chemical stability	Excellent
Materials to avoid Concentrated mineral acids	Concentrated alkali metal hydroxides
Hazardous decomposition products	None
Hazardous polymerisation	Not applicable

### 11. TOXICOLOGICAL INFORMATION

Acute toxicity	
Oral LD <sub>50</sub> (rat) (mg/kg) be high	Not known, but since Vermiculite is an inert mineral, LD <sub>50</sub> /LC <sub>50</sub> values would
Dermal LD <sub>50</sub> (rat) (mg/kg)	
Inhalation LC <sub>50</sub> 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

### 12. ECOLOGICAL INFORMATION

Ecotoxicity	No information available, but since Vermiculite is a stable unreactive insoluble material, no ecological problem is known or expected
Appraisal	Not applicable

### 13. DISPOSAL INFORMATION

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

### 14. TRANSPORT INFORMATION

United Nations number	Not applicable as material is classified as non-hazardous
ADR/RID class	
Packing group	
IMDG code	
ICAO/IATA	
IMO shipping name	
IATA shipping name	
ADR shipping name	
RID shipping name	

### 15. REGULATORY INFORMATION

(EEC regulatory information)	Not applicable as material is classified as non-hazardous
EC supply labelling	
Packing group	
Label name	
ICAO/IATA	
Classification and symbol	
Risk phrases	
Safety phrases	
FAO hazard labelling	

### 16. OTHER INFORMATION

Main references	EH40, 1995 for Exposure Limits
Revision history	
Edition number	1
First issue date	March 1996
Date of last revision	

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