MATERIALS SAFETY DATA SHEET

1 Product and Company Identification

Material	: Vermiculite
Company	: DFL Minmet Refractories Corp.
Address	: 1111-1112，Sinotrand Building,No368.North Youyi Street Shi Jiazhuang City, Hebei Province, Peoples Republic of China, 050071
Telephone	: 0086 311 8779 0106
Fax	: 0086 311 8779 9798
E-mail	: sales@dfl-minmet-refractories.com

2 Product Description and Composition

Physical Form	: Vermiculite is the mineralogical name given to hydrated laminar Mg-Al-Fe silicates which resemble mica in appearance.
CAS Number	: 1318-00-9

3 Hazard Identification

Hazard Symbols	: None Required.
Health & Safety	: Not classified as a hazardous substance under UK and European packaging and labelling regulations.

4 First Aid Measures

Inhalation	: Remove to fresh air and rest. If recovery is not rapid, seek prompt medical attention.
Eyes	: Irrigate with water for at least 15 minutes. Seek medical attention if irritation persists.
Skin	: Rinse contaminated area with plenty of water. Non-irritant.
Ingestion	: Not harmful.

5 Fire Fighting Measures

Suitable Fire Extinguishers	: Non-combustible material.
Unsuitable Fire Extinguishers	: Not applicable.
Hazardous Decomposition	: Not applicable.
Special Procedures	: Not applicable.

6 Accidental Release Measures

Exposure Controls	: Clean up as part of good housekeeping practice. Ventilate area.
Personal protection	: Nuisance dust mask should be worn if airborne dust is generated.
Disposal	: Not a designated 'Special Waste', dispose of in accordance with Local Authority requirements.

7 Handling and Storage

Handling	: Avoid inhalation of dust. Vermiculite becomes slippery when wet.
Storage	: Store in a dry area.

8 Exposure Controls

Occupational Exposure Limits	: Long Term - 10mgm^{-3} inhalable dust, 4mgm^{-3} respirable dust (8-hour Time Weighted Averages).
Biological Exposure Limits	: Not applicable.

Nuisance dust mask should be used when Occupational Exposure Limit is likely to be exceeded.

9 Physical and Chemical Properties

Appearance	: Light to dark brown flakes.
Odour	: Odourless.
pH	: 6-9 (in water).
Boiling Point	: Not Applicable.
Melting Point	: 1200-1330˚C.
Flash Point	: Not applicable.

Combustibility	: Non-combustible.
Auto-flammability	: Non-flammable.
Explosive Nature	: None.
Oxidising Properties	: Not applicable.
Vapour Pressure	: Not applicable.
Relative Density	: 2.3.
Solubility	: Water insoluble.
Partition Coefficient	: Not applicable.
Miscibility	: Not applicable.
Vapour Density	: Not applicable.
Evaporation Loss	: Not applicable.
Viscosity	: Not applicable.

10 Stability and Reactivity

Stability	: Stable.
Hazardous Polymerisation	: Not applicable.
Hazardous Decomp. Products	: None known.

11 Toxicological Information

Toxic Effects	: None known.
Chronic Effects	: None known.

12 Ecological Information

Mobility	: Not likely to be mobile.
Persistence and Degradability	: Not likely to biodegrade.
Bioaccumulative Potential	: Not likely to bioaccumulate.
Aquatic Toxicity	: Not likely to be toxic to aquatic life.

13 Disposal Considerations

Not classified as a special waste.

14 Transport Information

UK Road Traffic Regulations	: Non-hazardous.
Chemical (Hazard Information And Packaging) Regulations	: Labelling not required.
United Nations List	: Non-hazardous.

15 Regulatory Information

Hazard Symbols	: None required.
Risk and Safety	: Not classified under UK and European packaging and labelling Regulations.
Other Regulations	: European Directive 91/155/EEC. UK Health & Safety at Work Act 1977. UK Control of Substances Hazardous to Health Regulations 1988.

16 Other Information

Asbestos Testing	: This materials has been tested for the presence of asbestos by the RJ Lee Group Inc. of US . No asbestos was detected.

This Materials Safety Data Sheet has been prepared using available information and provides the user with health and safety information, which is accurate as far as is reasonably practicable.