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SAFETY DATA SHEET

Reviewed: 15 January 2025

1. IDENTIFICATION

Product Name: **AUSPERL VERMICULITE**
Other Names: Grade 00, Grade 0, Grade 1, Grade 2, Grade 3, Grade 4
Supplier: Ausperl Pty Ltd
Physical Address: 64 Gow Street, Padstow, Sydney, NSW 2211, Australia
Phone: +61 2 8318 7824
24-hour Emergency: 131126
Fax: +61 2 9791 1350

2. HAZARDS IDENTIFICATION

Definition: Non-hazardous
Approval Description: N/A
GHS Class: None
UN Number: N/A
Hazchem Code: N/A
Packaging Group: N/A
Proper Shipping Name: None, not defined as a dangerous good
Other Classifications: None known
Acute – Ingestion: No adverse effects expected.
Acute – Eye: Exposure to dust may cause discomfort due to the particulate nature.
Acute – Skin: Not expected to be a skin irritant.
Acute – Inhalation: Inhalation of dust may result in respiratory irritation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Product Use: Horticulture, fire protection agent and filler applications.
Description: Vermiculite is the mineralogical name given to hydrated laminar magnesium-aluminium-iron silicates which resemble mica in appearance. When subjected to heat, crude vermiculite has the unusual property of exfoliating or expanding into worm-like particles. Vermiculite is considered a nuisance dust (also called "Particulates Not Otherwise Classified (PNOC)" by ACGIH).

Ingredients:	Name	CAS Proportion
	Vermiculite ore:	1318-00-9; greater than 99.9%
	Crystalline silica (Quartz):	14808-60-7; less than 0.1%
	Crystalline silica (Cristobalite):	14464-46-1; less than 0.1%

4. FIRST AID MEASURES

Ingestion: DO NOT induce vomiting. Observe the patient. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water (or milk) to rinse out the mouth. Then provide liquid slowly and as much as possible to drink. Seek medical advice.

Eye: Wash carefully with water for several minutes. If eye irritation continues: contact a doctor. Bring this SDS.

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Skin:	Wash exposed skin with a sufficient amount of soap and water to remove the material.
Inhalation:	Remove the victim to fresh air. Encourage the patient to blow their nose to ensure clear breathing passages. Rinse mouth with water. Consider drinking water to remove dust from your throat. If discomfort persists seek medical attention.
Advice to Doctor:	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Vermiculite is a fully oxidized non-flammable mineral. It is non-combustible.

Advice to firefighters: Noncombustible, not considered a fire risk.

Suitable extinguishers: Carbon dioxide, extinguishing powder, or water jet.

Unsuitable extinguishers: not known

Hazchem code: N/A

6. ACCIDENTAL SPILL/RELEASE MEASURES

There is no current legal requirement for the containment of this product. Vermiculite is inert and is not expected to present a hazard to the environment.

In the event of a spillage, vacuum or sweep up, but avoid generating dust (ideally apply water to suppress dust). Use a dust mask, and safety glass for nuisance dust & eye protection.

This material is suitable for approved landfills.

7. HANDLING AND STORAGE

Not defined as a Dangerous Good. Store in a dry place. Avoid generating and inhaling dust.

Keep containers closed when not in use. See section 8 regarding PPE.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:	OSHA PEL - 15 mg/m ³	ACGIH TLV 10 mg/m ³
Other Exposure Info:	No value was assigned for this specific material by the Occupational Health & Safety Administration.	
Engineering Controls:	Ensure ventilation is adequate to maintain air concentrations below exposure standard. Avoid generating and inhaling dust. Keep containers closed when not in use.	
Protective Equipment:	No specific safety equipment is required. Preferable to avoid skin and eye contact and inhalation of dust. Wear overalls, safety glasses and impervious gloves. Avoid generating and inhaling dust. If dust exists, wear a dust mask/respirator meeting the requirements of AS1715 and AS1716. Always wash hands before eating, drinking or using the toilet.	

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Brown granules
Melting Point:	> 1300 c
Boiling Point:	Not applicable
Vapor Pressure:	Not applicable
Specific Gravity:	50-120kg/m3
Flash Point:	Not applicable
Flammability:	Not flammable
Explosion limit:	Non-explosive

10. STABILITY AND REACTIVITY

Stability:	Stable
Incompatible materials:	Not Known
Hazardous decomposition: products:	None None reported, unlikely to combust.
Conditions to avoid:	Not applicable

11. TOXICOLOGICAL INFORMATION

Inhaling vermiculite dust can irritate the upper respiratory tract and lungs and may be harmful from repeated exposures over a long period. Long-term exposure to high dust concentrations may cause changes in lung function, i.e. Pneumoconiosis; caused by particles less than 0.5 microns penetrating and remaining in the lungs.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

13. DISPOSAL CONSIDERATIONS

Dispose in bulk or containerised according to local regulations. Normally approved for disposal at approved land waste sites.

14. TRANSPORT INFORMATION

Not defined as a Dangerous Good. There are no applicable UN, Class, Shipping Name, Hazchem codes, numbers, or precautions.

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15. REGULATORY INFORMATION

Based on the information available it is not classified as hazardous.

No poison schedule or classification number has been allocated by SafeWork Australia.

Inventory Listings:

AICS (Australian Inventory of Chemical Substances)
All components are listed on AICS or are exempt.

AUSTRALIA: HCIS (Hazardous Chemical Information System)

All components are listed on HCIS or are exempt.

16. OTHER INFORMATION

This safety data sheet and the information contained herein are provided for the sole purpose of enabling persons handling and using the product to do so safely. It is based on our current state of knowledge and is given in good faith and constitutes a guideline for safely using this product. As all possible scenarios cannot be anticipated, it is expected that when using this product, the user will assess the frequency and duration of use, the quantity used and the control measures in place before assessing the level of personal protective equipment that they chose to use to minimize their exposure to the product.

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