Safety Data Sheet
AUSPERL Vermiculite

Issued 1 June 2016

1 | IDENTIFICATION
Product Name: AUSPERL VERMICULITE
Other Names:
Supplier: Ausperl Pty Ltd
Physical Address: 64 Gow Street, Padstow, Sydney, New South Wales, Australia
Phone: +61 2 8318 7824
24 hour Emergency: +61 438 388 906
Fax: +61 2 9791 1350

2 | HAZARDS IDENTIFICATION
Acute – Ingestion: No adverse effects expected.
Exposure to the dust may cause discomfort due to the particulate nature.
Acute – Eye: Not expected to be a skin irritant.
Acute – Skin: Inhalation of dust may result in respiratory irritation.

3 | COMPOSITION / INFO ON INGREDIENTS
Product Use: Horticulture, fire protection agent and filler applications
Description:
Vermiculite is the mineralogical name given to hydrated laminar magnesium-aluminum-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:

<table>
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<tr>
<th>NAME</th>
<th>CAS PROPORTION</th>
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<tbody>
<tr>
<td>Vermiculite ore</td>
<td>1318-00-9; greater than 99.9%</td>
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<tr>
<td>Crystalline silica (Quartz)</td>
<td>14808-60-7; less than 0.1%</td>
</tr>
<tr>
<td>Crystalline silica (Cristobalite)</td>
<td>14464-46-1; less than 0.1%</td>
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4 | FIRST AID MEASURES
Ingestion: Rinse mouth with water - give plenty of water to drink. If vomiting occurs give further water. Seek medical advice.
Eye: Irrigate with copious quantities of water for 15 minutes. In all cases of eye contamination it is a sensible precaution to seek medical advice.
Skin: Wash contaminated skin with plenty of soap and water. If irritation occurs seek medical advice. Remove victim from exposure - avoid becoming a casualty.
Inhalation: Remove contaminated clothing and loosen remaining clothing. Patient to assume most comfortable position and kept at rest until fully recovered.
Advice to Doctor: Treat symptomatically.

5 | FIRE FIGHTING MEASURES
Vermiculite is a fully oxidized non-flammable mineral. It is non-combustible.

6 | ACCIDENTAL SPILL/RELEASE MEASURES
Use respirators suitable for nuisance dust & eye protection. Sweep up, but avoid generating dust.

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.
8 | EXPOSURE CONTROLS/ PERSONAL PROTECTION
Exposure Limits:
OSHA PEL - 15 mg/m³
ACGIH TLV - 10 mg/m³
Other Exposure Info: No value 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 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 dust mask/respirator meeting the requirements of AS1715 and AS1716. Always wash hands before eating, drinking or using the toilet.

9 | PHYSICAL AND CHEMICAL PROPERTIES
Appearance: Brown granules
Melting Point: Approx. 1350°C
Boiling Point: Not applicable
Vapor Pressure: Not applicable
Specific Gravity: 50-120 kg/m³
Flash Point: Not applicable
Flamm. Limit LEL: Not applicable
Explosion Data: Not applicable

10 | STABILITY AND REACTIVITY
Stability: Stable
Incompatibility: None (reacts with hydrofluoric acid; soluble in HF)
Hazardous Polymerization: Will not occur
Conditions to avoid: None

11 | TOXICOLOGICAL INFO
Inhaling crystalline silica-containing dust can aggravate upper respiratory conditions such as asthma or emphysema. Long term exposure to mineral dust which contains crystalline silica can cause the lung disease silicosis. A recent review by the International Agency for Research into Cancer of public literature on the carcinogenic risk of silica and silicates has concluded that there is limited evidence for the carcinogenicity of crystalline silica to humans.

12 | ECOLOGICAL INFO
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 INFO
Not defined as a Dangerous Good

15 | REGULATORY INFO
Based on the information available it is not classified as hazardous.

16 | OTHER INFO
This safety data sheet and the information contained herein is provided for the sole purpose of enabling persons handling and using the product to do so with safety.

New Zealand National Poisons Centre 24 hour contact number is 0800 764 766