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MSDS Safety Information
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SGS Code No: 2530 10.00

MSDS: IOM, Collaborating Centre for Occupational Health

MSDS: World Health Organization

Contract NO: 6233

Report: A8645 (Full IOM report available on request)

Project: 162

Date of Issue 19/4/1999

Product: RAW VERMICULITE

Processed: MILLED AND GRADED

Responsible Party: C McIntosh and LST Davies

Name: The Espoma Company

Address: 6 Espoma Road

City: Millville, NJ 08332

Info Phone Number: 800-634-0603

Published: Certificate of Analysis
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Vermiculite Supplier Summary
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Name: The Espoma Company

Address: 6 Espoma Road

City: Millville, NJ 08332

Phone: 800-634-0603

Email: jharrison@espoma.com
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Ingredients : Uganda Vermiculite, Magnesium Aluminosilicate Mineral
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Optical Microscopy : No amphibole asbestos, chrysotile or other mineral fibres were detected in the crude vermiculite.

SEM : 'Fibres' - Magnesium aluminum silicates and titanium/iron, identified non-asbestos. The non-asbestos mineral fibres represented <0.001% of the original bulk material.

XRD : No fibres found which had morphologies and elemental compositions consistent with their identification as amphibole minerals. The amphibole mineral found was non-fibrous in form. Quartz was found to comprise 0.03% of the bulk material.
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Health Hazards Data / Transportation

Working with this material or products containing them should not present a health hazard in a normally controlled occupational environment. Ventilation in working environment is recommended.

Non-toxic and stable material.

Transportation:

USA & Europe Departments of Transportation:

Classified: Non-hazardous.

Handling and Disposal

Product is not hazardous and non-toxic. Dispose of waste/dust in accordance with applicable local regulations.

Fire resistant / non-inflammatory.

Avoid inhalation of dust. Recommended wearing of dust mask and eye protection goggles when handling loose material.

Physical/Chemical Properties

Colour: Bronze / golden

Bulk density (raw): 600 to 900 Kg per cubic metre

Contain the below mentioned minerals in complex crystal structures.

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Oxide wt %	Namekara Uganda
Fe₂O₃	8,81
FeO	n.d.
TiO₂	1,78
CaO	0.2
K₂O	0.3
SiO₂	38,46
Al₂O₃	14,47
Cr₂O₃	n.d.
MgO	21,4
Na₂O	0,07
MnO	0.07
BaO	0.04
S	0

P205	0.02
SrO	n.d.
L.O.I or H2O total	14
	99,62

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Ecological Information:

Approved by NEMA (National Environmental Management) in Uganda

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Regulatory Information:

Uganda Government Mining Lease: 4651

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Other Information: RJ Lee, USA, Laboratory Report May 2002.

EPA/600/R-93/116

"In summary, no asbestos was detected in the sample covered by this report"

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