

SAFETY DATA SHEET (SDS)

Revision date: 21/03/2014.

PRODUCT NAME: VERMICULITE

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

1.1. Identification of the substance or preparation

Name: Naturally occurring vermiculite

REACH Registration N°: Exempted according to Article 2 § (7)

Trade Names: Vermiculite

Chemical name: Vermiculite

1.2. Relevant identified uses of the substance or preparation and uses advised against

Vermiculite is normally heat expanded prior to use.

1.2.1. In the crude state vermiculite is used as functional filler in fire-resistant plasterboard formulations.

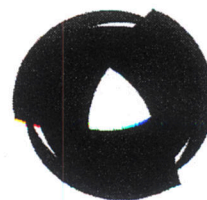
1.2.2. In the heat expanded or exfoliated form it is widely used in the construction and refractory industries as an insulation material and as a lightweight aggregate.

1.2.3. Vermiculite is also incorporated into factory made insulation and fire resistant boards and panels and high temperature refractory shapes and moldings.

1.2.4. Vermiculite is also used in automotive friction linings as a functional additive.

1.2.5. Vermiculite is also widely used as an additive in growing media and as a soil improver.

1.2.6. Whilst vermiculite is widely used as a hazardous goods packaging material it not recommended for use in regular contact with strong acids or alkalis.



1.3. Details of the supplier of the safety data sheet

Name: Agrekal Substrates And Minerals

Address: Merkez Mahallesi Poyrazlı Mevkii No. 25 Y.Kocayatak Beldesi Serik/ANTALYA-TURKEY

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1.4. Emergency telephone

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2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

This product Agrekal Vermiculite does not meet the criteria for classification as hazardous as defined in the Regulation EC 1272/2008, and in Directive 67/548 EEC and its amendments.

This product should be handled with care to avoid dust generation.

Classification EU (67/548/EC): No classification.

Regulation EC 1272/2008: No classification.

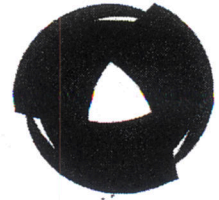
This product contains less than 0.1% quartz (total) and less than 0.0001% quartz (respirable).

2.2. Label elements

Hazard pictograms according to EC 1272/2008: Not applicable, no classification.

2.3. Other hazards

This product Agrekal Vermiculite is an inorganic substance and does not meet the criteria for PDT or vPvB in accordance with Annex XIII of REACH.



3. COMPOSITION / INFORMATION ON INGREDIENTS

Vermiculite is the mineralogical name given to a group of hydrated laminar magnesium-aluminum-iron silicates which resemble mica in appearance. When subject to heat, crude vermiculite has the unusual property of exfoliating or expanding into worm-like particles (the name vermiculite is derived from the Latin 'vermiculare', meaning to breed worms.). Vermiculite is a member of the phyllosilicate group of minerals.

Main constituents: Name	Chemical formula	Amount	CAS No	EINECS N°	EU N°/EU Classification
Vermiculite	$(\text{Mg}, \text{Fe}^{2+}, \text{Al})_3 (\text{Al}, \text{Si})_4 \text{O}_{10} (\text{OH})_2 \cdot 4\text{H}_2\text{O}$	85 -95%	1318-00-09	310-127-6	EC N° 603-518-0
Apatite	$\text{Ca}_5 (\text{F}, \text{Cl}) (\text{PO}_4)_3$	<5%	---	N-A	---
Mica phlogopite	$\text{K}_2 (\text{Mg}, \text{Fe}^{2+})_6 (\text{Si}_6 \text{Al}_2) \text{O}_{20} (\text{OH}, \text{F})_4$	<5%	12001-26-2	310-127-6	---
Diopside	$\text{Ca} (\text{Mg}, \text{Fe}^{2+}) \text{Si}_2 \text{O}_6$	<5%	14483-19-3	N-A	---
Alpha cristobalite & Tridymite	SiO_2	<0.1%	14464-46-1	238-455-4	EHS Hazard XN:R48/20 If respirable.
Alpha Quartz	SiO_2	0.01– 0.05%	14808-60-7	238-878-4	EHS Hazard XN:R48/20 If respirable.