



MATERIAL SAFETY DATA SHEET

In compliance with REACH Regulation (EC) 1907/2006

Name of the Product: **VERMICULITE**

Issue/Date: 1/May 2014

Date of Printing: 19/06/2014

1.0 IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

1.1 IDENTIFICATION OF THE SUBSTANCE OR PREPARATION

Material Trade Name: Vermiculite

REACH Registration¹: Excepted acc.to Article 2 §(7)

Product Name: Crude Vermiculite (All Grades)

CAS Number²: 1318-00-9

1.2 COMPANY

HELIX LTD

9, Liulin Planina Str.,

1606 Sofia,

Bulgaria

Telephone/e-mail: + 359 2 9026921 / office@helix-gtm.com

1.3 USE OF THE SUBSTANCE OR PREPARATION

Crude Vermiculite is normally heat expanded (exfoliated) prior to use

- In a crude state vermiculite is used as a functional filler in fire-resistant plasterboard formulations
- In a heat expanded (exfoliated) form it is used as/in: High temperature insulation, Sound insulation, Fireproofing, refractory Applications, Lightweight Concretes and screeds, Plasters and mortars, Loose fill insulation, Animal Feeds, Agriculture, Horticulture, Packaging, Liquid waste absorbent-Oils, Acids, Alkalis, Nuclear residues & Toxic Chemicals

2.0 COMPOSITION / INFORMATION ON INGREDIENTS

Vermiculite is a magnesium-aluminium-iron silicate.

CAS Number: 1318-00-9

3.0 HAZARDS IDENTIFICATION

HELIX Vermiculites does not meet the criteria for classification as dangerous as defined in EC Regulation 1272/2008 and Directive 67/548 EEC and its amendments.

Symptoms of overexposure for each potential route of exposure

- Inhalation: Coughing. Excessive inhalation over long period may cause irritation; Use mask suitable for nuisance dust.
- Contact with skin or eyes: possible eye irritation from dust particles; wear eye protection.
- Absorbed through skin; N/A
- Swallowed: N/A

- Not acute health effects or risks from exposure
- No chronic health effect.

4.0 FIRST AID MEASURES

Oral: Not harmful. Vermiculite is used as a carrier in animal feedstuffs. Rinse mouth with water.

Eye Contact: Wash with copious amounts of water. If irritation persists, seek medical advice.

Skin Contact: Wash with soap and water.

Inhalation: Remove from exposure immediately. Induce coughing. Seek medical advice if large amount of dust has been inhaled, or distress is caused

5.0 FIRE FIGHTING MEASURES

These products are non-flammable and non-combustible material.

Will not give off noxious fumes. There are no limitations on extinguishing media. Vermiculite is classified for reaction to Fire as Class A1 in Decision EC/96/603/ as amended by decision EN/605/2000.

6.0 ACCIDENTAL RELEASE MEASURES

Use: Area should be well ventilated. Prevent flakes from entering the eyes. Do not inhale dust.

Personal precautions: See section 8, Exposure controls / personal protection.

Spillage: collect by wet sweeping or vacuum. Vermiculite is commonly used to collect liquid spillage.

7.0 HANDLING AND STORAGE

7.1 HANDLING

The use of engineering measures (e.g. local dust extraction) are recommended to provide effective dust control in order to ensure compliance with the current Occupational Exposure Limits.

Respiratory protection: wear masks suitable for nuisance dust.

Eye protection: wear protective goggles or similar.

7.2 STORAGE

Store under normal dry conditions. Keep containers closed.

Maintain good housekeeping to avoid transient dust.

8.0 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 EXPOSURE LIMITS

Respect regulatory provisions for dust

¹ **REACH Registration-** EC Regulation 1907/2007 – Registration Evaluation, Authorization and Restriction of Chemicals – generates duties for producers, importers and suppliers.

² **CAS Number-** CAS REGISTRY covers substances identified from the scientific literature from 1957 to the present.



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Workplace Exposure Limit for vermiculite: 10mg/m³ ID(Inhalable dust); 3 mg/m³ RD (Respirable dust)

8.2 EXPOSURE CONTROLS

Provide appropriate exhaust ventilation, engineering controls and filtering at the place where dust can be generated.

Respiratory protection: The use of a dust mask or equivalent to EN149 Category FFP2S, and the provision of dust extraction/ventilation where dust is produced is recommended.

Hands: Gloves

Eyes: Goggles

Skin: General protective overalls.

9.0 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Golden brown flakes

Odour: None

pH: 6-8

Boiling point: Not applicable

Melting point: 1330°C

Flash point: Not applicable

Flammability: Not flammable

Explosive properties: Not applicable

Solubility in water: Non soluble

10.0 STABILITY AND REACTIVITY

The vermiculite is considered to be stable and inert.

11.0 TOXICOLOGICAL INFORMATION

Acute effects: No acute toxic effects

Chronic effects: Not mutagenic, not carcinogenic, not toxic to reproductive system.

Vermiculite does not constitute any known health hazard.

12.0 ECOLOGICAL INFORMATION

Not persistent, not bioaccumulated

No adverse effects are to be expected. Vermiculite is commonly used as a soil improver. Vermiculite is not readily biodegradable

Vermiculite is not expected to bioaccumulate Vermiculite is not expected to be toxic to aquatic life.

13.0 DISPOSAL CONSIDERATIONS

Dispose in bulk or containers according to the Local requirements. No special treatment requires. Dispose in all wastes in accordance with National and Local regulations.

14.0 TRANSPORT INFORMATION

No special precautions are required. This product is not classified as dangerous for conveyance. Hazard symbols-not required.

15.0 REGULATORY INFORMATION

Vermiculite is classified as non-hazardous.

REACH regulation: Vermiculite is a naturally occurring product that has not been chemically modified. Article 2 (7)b, and annex V, para 7 of the REACH regulations exempts this material from REACH registration.

16.0 OTHER INFORMATION

Training: training should be given to employees how to handle the Material without generating dust or spillage.

Liability

The health and safety information contained herein is believed to be accurate and correct based on our current knowledge and experience at the date of issue and no liability can be accepted for any loss, injury or damage resulting from its use. It is intended as a guide for the safe handling, storage, transportation and use under normal conditions. The data does not signify any warranty with regard to the product properties.

It is the user's responsibility to satisfy itself as to the suitability and completeness of such information for their own particular use.