



SAFETY DATA SHEET
CLINOPTILOLITE (ZEOLITE)

Revised 03.12.08

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY	
Trade Name:	Clinoptilolite, Natural Zeolite.
Usage:	Remediation, turf improvement, odour absorption, fertiliser manufacture.
Supplier:	Shop Holistic
Address:	Unit 27-28 Venture Wales Bedwas House Industrial Estate Caerphilly CF83 8GF
Phone Number:	02920 852222
email:	customerservices@shopholistic.co.uk

2. HAZARD IDENTIFICATION	
<p>Clinoptilolite is not flammable, combustible or explosive, and has no known adverse environmental effects. However it should be noted that this product may contain traces of cristobalite (CAS 14464-46-1) (a form of crystalline silica) which is injurious to the lungs.</p> <p>Inhalation: Respirable crystalline silica can cause chronic silicosis, a fibrosis of the lungs.</p> <p>Eye Contact: May cause abrasion of the cornea.</p> <p>Skin Contact: May cause abrasion to skin.</p> <p>Ingestion: No known health effect.</p>	

3. COMPOSITION/INFORMATION ON INGREDIENTS	
<p>A natural crystalline aluminosilicate mineral with approximate empirical formula: (Ca, Fe, K, Mg, Na)₃₋₆ Si₃₀ Al₆ O₇₂ .24H₂O.</p> <p>Typical mineralogical composition: 95% Clinoptilolite, minor amounts of feldspar and smectite.</p>	
CAS No	12173-10-3

4. FIRST-AID MEASURES	
Eyes:	May cause mechanical irritation which can result in redness, itching and lachrymation. If contact with the eye occurs, wash with copious amounts of water for approximately 15 minutes.
Skin:	May cause mechanical irritation in contact with the skin. Wash thoroughly with water. Wash clothes before re-use.
Ingestion:	Material is biologically inert. It is however highly adsorbent and could have a dehydrating effect if ingested in large amounts. Wash out mouth with water, and then give plenty of water to drink. Seek medical attention if irritation or other symptoms develop.
Inhalation:	May cause irritation of mucous membranes and upper airways. Symptoms may include sneezing, coughing and breathing difficulties. Move victim to fresh air and have the victim blow nose to remove excess dust. Ensure airways are clear. If breathing is difficult, a qualified person should give oxygen via a face mask. If irritation develops and persists, seek medical attention. Silicosis may result from excessive inhalation over an extended period.

5. FIRE-FIGHTING MEASURES	
Extinguishing Media:	Use appropriate media to surrounding fire. Clinoptilolite is compatible with all extinguishing media.
Special Exposure Hazards:	None
Protective Equipment for Fire Fighting:	Wear Self-Contained Breathing Apparatus (SCBA) and full protective clothing.
Hazardous Combustion Products:	None

6. ACCIDENTAL RELEASE MEASURES	
Personal Precautions:	Use personal protection appropriate to the situation and quantity handled. The use of a dust mask, nitrile gloves and either goggles or safety glasses is recommended. If large amounts of dust are likely to be generated, use a respirator.
Environmental Precautions:	No known adverse environmental effects.
Spillages:	Scoop up spillages and place in a container. Avoid creating dusts. Wear appropriate respiratory protection, safety glasses and overalls as a precaution. When used to absorb a hazardous substance, handle as per that substance.

7. HANDLING AND STORAGE	
Handling:	Irritation to the skin or eyes is likely to be of a mechanical nature. No known toxicology due to accidental ingestion. Where dust is generated, the use of a mechanical exhaust ventilation system is recommended.
Storage:	Store in original packs/containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION	
Occupational Exposure Standards:	None assigned.
Respiratory Protection:	The use of a dust mask is recommended. If large amounts of dust are likely to be generated, use a respirator.
Hand Protection:	Nitrile gloves should be worn.
Eye Protection:	Goggles or safety glasses should be worn.

9. PHYSICAL AND CHEMICAL PROPERTIES	
Physical State:	Granular or powdered solid
Colour:	Off-white or Ivory
Odour:	Slight earth-like odour
Hardness:	2 to 3 Mohs
Melting Point (°C):	Approx. 1300
Solubility in Water:	Virtually insoluble
Water Absorption (%):	46.5%
Bulk Density:	1-2.5mm = 0.85 MT/m ³ ; 0.5-1mm = 0.75MT/m ³ ; <100 microns = 0.65 MT/m ³ (Bulk density data is approximate)
Specific Weight:	2000 – 2400 Kg/m ³
Flammability:	Non-flammable

10. STABILITY AND REACTIVITY	
Stability:	Stable
Materials to Avoid:	Strong Oxidising Agents, Hydrofluoric Acid.

11. TOXICOLOGICAL INFORMATION	
Inhalation:	Silicosis of the lung may result from excessive inhalation over an extended period.
Skin and Eye Contact:	Irritation to the skin or eyes is likely to be of a mechanical nature.
Ingestion:	No known toxicology due to accidental ingestion.

12. ECOLOGICAL INFORMATION	
No known adverse environmental effects	

13. DISPOSAL CONSIDERATIONS	
Product Disposal:	Disposal should be via landfill. Care should be taken to ensure that product is covered to stop any dust particles becoming airborne. It should be noted that contamination may occur during use and it is the responsibility of the user to assess an appropriate disposal method in this situation.

14. TRANSPORT INFORMATION	
Clinoptilolite is not a hazardous material for purposes of transportation.	

15. REGULATORY INFORMATION	
Risk & Safety:	Not classified as hazardous under the CHIP Regulations 2002 Not classified as hazardous according to EC/2001/58 & EEC/67/548
Other Regulations:	Health & Safety At Work Act 1974; Control of Substances Hazardous to Health Regulations 2004 as amended; Environmental Protection Act 1990; EC Safety Data Sheet Directive EC/91/55.

16. OTHER INFORMATION	
Shop Holistic provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate handling of the product by a properly trained person. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.	
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