

HEALTH AND SAFETY DATA

Issued under the Consumer Protection Act 1987, The Health and Safety at Work Act 1974 and the Control of Substances Hazardous to Health Regulations 1988 (COSHH).

PRODUCT

TechniClay expanded clay aggregate consists of expanded clay nodules which are composed of hundreds of minute air cells, contained within a hard and strong vitrified outer shell. The nodules are produced by sophisticated pyrogenic technology whereby geochemically specific clay is expanded in a rotary kiln at a specifically controlled temperature and rate of flow.



APPLICATIONS

Combining the properties of lightness and strength TechniClay expanded clay aggregate is manufactured for use in the following applications where insulation, strength, bulk fill and fire resistance are required:-

- **Concrete Block Manufacture**
- **Geotechnical and Civil Engineering projects**
- **Ground insulation**
- **Horticulture**
- **Hydroponics**
- **Drainage**

PHYSICAL AND CHEMICAL CHARACTERISTICS

TechniClay expanded clay aggregate is produced from naturally occurring clays and consists of combinations of various minerals. TechniClay is chemically inert and sterile, is non-toxic, disease free, resistant to algae and has a neutral pH.

Listed below are the average values of chemical analysis for TechniClay. The figures represent percentage by mass.

Typical Chemical Analysis %	
Silica	60
Alumina	20
Ferric Oxide	8
Calcium Oxide	3
Magnesia	3
Sulphuric Oxide	0.5
Potassium Oxide	3
Titanium Oxide	1
L.O.I	<0.5
Other	1
TOTAL	100

MAIN HAZARD

TechniClay products are classed as non-hazardous. Within the composition of the products there is a fraction of respirable quartz. Prolonged and repeated daily inhalation of large quantities of dust from materials containing quartz involves the risk of pulmonary silicosis and lung cancer. Dust masks to the following standards should be worn in enclosed spaces where adequate ventilation does not exist: BS 2091 Type B, BS EN 149 or equivalent.



TRANSPORT & HANDLING CONSIDERATIONS

The transportation of TechniClay products is not subject to Hazardous Substances conveyance regulations and labelling is not required.

The movement of TechniClay products around sites using loading shovels and excavator may cause crushing of the material and increase dust levels.

Outside storage of TechniClay products may expose the material to water absorption, increasing the moisture content. Conversely, drying winds can increase dust levels and the incidence of airborne dust. In the case of an unacceptably high dust level, the material should be watered, ventilation should be provided or work processes should be changed.

If it is not possible to reduce the dust concentration to an acceptable level, the respiratory protective equipment referred to earlier should be worn.

DISPOSAL CONSIDERATIONS

TechniClay products are to be disposed of as construction waste.

FIRST AID MEASURES

- Inhalation : Fresh air
- Eyes : Irrigate the eyes with water. If irritation persists, seek medical assistance.
- Skin : Not relevant
- Ingestion : Not relevant

