HEALTH AND SAFETY PRODUCT DATA SHEET
NON-AUTOCLAVED FIBRE CEMENT PRODUCTS

The Control of Substances Hazardous to Health Regulations (COSHH), requirements of The Health and Safety at Work Act, The Consumer Protection Act and The Chemicals (Hazard Information and Packaging for Supply) Regulations, requires us to provide relevant information regarding our products in respect of its properties, correct use, storage/handling and disposal without risk to health.

1 Identification of the substance/preparation and of the company/undertaking

Product details
Non-Autoclaved Fibre Cement Products are either smooth or textured rigid rectangular products with factory applied surface coatings in a number of colours or as a naturally coloured product..

Application of the Product *Roofing/Cladding/Rainwater Goods*

Manufacturer/Supplier:
Marley Eternit Limited
Lichfield Road
Branston
Burton on Trent
Staffordshire
DE14 3HD
Tel: 01283 722222

2 Composition/information on ingredients

Description: *Manufactured from Portland Cement, sand and water with natural and synthetic fibres and fillers, either fully or semi-compressed. If through coloured they will contain pigments. If surface coated, the coating will generally be a water based acrylic resin with pigments.*

3 Hazards identification

Hazard description: If machined mechanically, fibre cement products will release dust. Inhalation of high concentrations of dust may irritate the airways. Dust may also cause irritation of the eyes and/or skin. Profiled sheets may be reinforced with polypropylene strips to improve their impact resistance.
No fibre cement product should be walked on, as this will affect it's long-term durability, crawling boards must be used.

4 First-aid measures

General information: *There are no specific requirements when using fibre cement slate other than the appropriate treatment of minor injuries.*
Damage to skin**:** *Wash with water and apply sterile dressing.*
Dust in mouth or eyes: *Irrigate liberally with water. If irritation or discomfort persists, seek medical advice.*
Ingestion*: Give plenty to drink.*
Inhalation: *Remove to fresh air*

5 Fire-fighting measures

Suitable extinguishing agents:
Fibre cement products are non-combustible or class "0" and compatible with all standard fire-fighting measures. However, the painted surfaces of concrete products will burn if heated fiercely but will extinguish on removal of the ignition source. No special fire fighting procedures or extinguishing media's are required to deal with burning products. The thermal decomposition of acrylics used both in production and surface coatings may yield toxic monomer fumes.

6 Accidental release measures

Procedure for Spill/Leak: *Collect dust with vacuum cleaner or soak with water and sweep up.*

7 Handling and storage

Information for safe handling: *Off-loading of heavy loads should be carried out with care to avoid unnecessary strain on the handlers and accidental damage to the product. Personal injury due to strains and ruptures should be avoided if the requirements of The Manual Handling Operations Regulations are implemented.*

Storage: *Packs can be stacked a maximum of three high on a dry level surface.*
Products should not be allowed to become wet in storage. If product is stored outside, the polythene hood should be removed and the product open stacked and covered with a tarpaulin.
This is to allow free air movement and to avoid the risk of condensation forming within the pack, which could cause efflorescence. Profiled sheets and Equitone panels should be stored as near as possible to the area where they are to be used, away from road works and vehicular traffic. They should be stored horizontally on level firm ground with sheets on timber bearers.

8 Exposure controls/personal protection

Fibre cement products may have edges that are sharp or abrasive, therefore suitable gloves should be worn when handling. When handling wet tiles/ sheets, impervious PVC or Nitrile gloves should be worn. Other suitable personal protective equipment should also be worn to prevent contact with the wet tile surface, which may become alkali.
As a general rule try to eliminate the exposure to dust. Work in a well-ventilated area. Use dust suppression techniques such as water sprays. The use of angle grinders is not recommended and products can be cut by scribing and breaking over a straight edge or by using a normal hand saw with teeth of 3-3.5mm pitch preferably wide set. Collect dust with a vacuum cleaner, hose down or wet sweep work areas. Goggles (CE approved to BS2092) should be worn during cutting/drilling operations.
An approved P3 respirator must be worn to prevent the inhalation of dust when other measures fail to adequately control the dust produced during the mechanical machining of the products.

Workplace Exposure Limit
Dust – 8 hr T.W.A.
10 mgm³ (total inhalable dust)
4 mgm³ (total respirable dust)

9 Physical and chemical properties

General Information:
Fibre cement slates/sheets are inert and solid when supplied. The cement is predominately made up of calcium silicate and calcium aluminate. The pigments used in production are mainly iron oxide, although other oxides may be present in varying quantities. Naturally occurring mineral fillers along with natural and synthetic fibres are bound in to the cement matrix.

Profiled Sheets *Have a nominal density of 1450kg/m3 the minimum breaking load of the Profiles when tested to BS EN 494 are listed below:*

Profile 3	*1400 N/m*
Profile 6	*4250 N/m*
Rainwater goods	
Trafford tile	

	Average Bending Strength N/mm2	*Average Density Kg/m2*
Equitone Cladding Panels:		
Natura	*17*	*1650*
Textura	*17*	*1650*
Pictura	*17*	*1650*
Tectiva	*17*	*1650*

Slates
Thrutone, Birkdale, Garsdale and Rivendale.

Odour	*None*
Flammability	*Fire – Fibre cement products are class "0" to the building regulations and A2-s1-d0 to En 13501-1 for Profile sheet and Equitone product.*

10 Stability and reactivity

Fibre Cement products are unaffected by general levels of atmospheric pollution. If the slates are to be exposed to aggressive environments, the advice of our Technical Dept. should be sought.

11 Toxicological information

Inhalation: *Acute over-exposure to dust may cause irritation of the respiratory tract..*
Skin Contact: *Prolonged or repeated contact may cause mild irritation.*
Skin Absorption: *No known hazards.*
Ingestion: *Mild discomfort*
Eyes: *Mild transient irritation. No specific hazard.*

12 Ecological information

Fibre cement products will not degrade in the ground.

13 Disposal considerations

Redundant product and packaging should be recycled where this facility exists, or disposed of by a registered carrier to an approved landfill site. Waste polythene can be incinerated under approved conditions in compliance with the Environmental Protection Act. Advice on the preferred method should be obtained from the local authority waste disposal officer.

14 Transport information

General notes: *No special precautions required.*

15 Regulatory information

General notes: *Classified as non-hazardous for conveyance and supply.*

16 Other information

General notes: *In accordance with the Management of Health & Safety at Work Regulations, employers must carry out a risk assessment to ensure the health and safety of their employees and non-employees who may be affected by their undertaking when using these products.*

National Legislation: *Health and Safety at Work etc Act 1974, Control of Substances Hazardous to Health Regulations, Construction (Health, Safety and Welfare) Regulations, Manual Handling Operations Regulations, HSE Guidance Note EH40 (Workplace Exposure Limits), HSE Guidance Note EH44 (Dust – General Principles of Protection), HSE Guidance Note EH59/2 (Respiratory Crystalline Silica). HSE - Chemical Hazard Alert Notice (CHAN) 35 Respirable Crystalline Silica*