

### 1) GENERAL

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**Products covered by this document:** All primary and secondary kiln furniture.

### 2) COMPOSITION

All kiln furniture is fired (cured) at over 1200°C. Chemical components include mullite, cordierite, siliceous glass and corundum, and some ranges may also contain zircon. Chemical analyses of specific products are available on request.

Component	CAS number	Weight (%)	Danger symbol	Risk phrase	OEL (8hr TWA)
Aluminium oxide	1344-28-1	< 50%	None	None	5 mg / m <sup>3</sup>
Silica (amorphous)	262-373-8	< 50%	None	None	3 mg / m <sup>3</sup>
Zirconium silicate	7440-67-7	< 10%	None	None	5 mg / m <sup>3</sup>

### 3) HAZARD IDENTIFICATION

Of low acute toxicity. Long-term exposure to respirable dust created during cutting or grinding of the products can be hazardous to health if precautions outlined in section 8 are not observed.

### 4) FIRST AID MEASURES

ROUTE	SYMPTOM	FIRST AID
Ingestion	Coughing	Give clean water to drink.
Inhalation	Coughing	Move away from source.
Contact with skin	May cause soreness in sensitive or damaged skin	Wash with soap and water.
Contact with eyes	Soreness	Flush with clean water. Seek medical assistance if soreness persists.

### 5) FIREFIGHTING

The product is heat resistant, non-flammable and does not decompose. Packaging material fires may be extinguished using a general purpose fire extinguisher. No special precautions required.

### 6) ACCIDENTAL RELEASE

None liquid. Gather up breakages by any means but avoid airborne dust.

### 7) HANDLING AND STORAGE

Large KF items such as batts can be heavy. The use of appropriate lifting techniques and wearing of safety shoes is recommended.

Although not essential, gloves may be beneficial in preventing abrasion of the skin while handling products for long periods.

Store in a dry place. Any products that become wet should be dried slowly, as a rapid build up of steam within the pores can cause sudden fragmentation.

#### 8) EXPOSURE

If regular cutting or grinding takes place, provide local exhaust system. If OELs are exceeded in the working area (see section 2), respirators should be worn.

Eye protection should be worn during any cutting or grinding operations.

#### 9) PHYSICAL AND CHEMICAL PROPERTIES

Appearance	-	Porous solid, white to light brown in colour.
Melting point	-	Melts above 1400 °C
Density	-	1.9 - 2.0 g/cm <sup>3</sup>
Solubility	-	Insoluble in water or organic solvents
Flammability	-	Non-flammable

#### 10) SAFETY AND STABILITY

Inert. Attacked by hydrofluoric acid.

#### 11) TOXICOLOGY

Long term exposure to excessive concentrations of airborne dust may be harmful to the lungs.

#### 12) ENVIRONMENT

Inert with respect to the environment. Non-biodegradable.

#### 13) DISPOSAL

Dispose of as non-toxic material in accordance with local regulations for dry and inert waste.

#### 14) TRANSPORT

The products are not classified as hazardous for transport. No special precautions required.

#### 15) REGULATORY INFORMATION

Dangerous Preparations Directive (88/379/EEC). Hazard Warning Label not required.

Control of Substances Hazardous to Health (COSHH) regulations apply in the UK.

#### 16) OTHER INFORMATION

**Bibliography:** Occupational Exposure Limits EH 40/95 (UK Health & Safety Executive).

The information provided in this document is correct to the best of our knowledge at the date of issue. It is intended as a guide to safe handling, storage and use of our products. It is not a specification or guarantee of specific properties and no liability can be accepted for loss, injury or damage resulting from its use.

