

## 1) IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY

**Products covered by this document:** C9 Refractory Cement

**Relevant Uses** Used to join items of kiln furniture (e.g.dots)

**Company address:** IPS Ceramics Ltd,  
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ST5 7UH  
United Kingdom

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## 2) HAZARDS IDENTIFICATION

The material is of low acute toxicity; however long-term exposure to any respirable dust created by careless handling or machining of the articles can be hazardous to health if precautions outlined in section 8 are not observed.

## 3) COMPOSITION / INFORMATION ON INGREDIENTS

The cement is composed of raw and calcined clay materials, and powdered sodium silicate. It is supplied as a dry powder, which hardens shortly after mixing with water.

Component	CAS number	Weight (%)	Danger symbol	Risk phrase	WEL (8hr TWA)
Ceramic material	66402-68-4	70%	None	None	5 mg / m <sup>3</sup>
Sodium silicate	1344-09-08	30%	Irritant	36/38	2 mg / m <sup>3</sup>

## 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 MEASURES

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

## 6) ACCIDENTAL RELEASE MEASURES

Gather up spillages by any means but avoid airborne dust.

## 7) HANDLING AND STORAGE

Unlimited shelf life if stored in a dry place.

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

## 8) EXPOSURE CONTROLS / PERSONAL PROTECTION

If WELs are exceeded in the working area (see section 2), respirators should be worn.

## 9) PHYSICAL AND CHEMICAL PROPERTIES

Appearance	-	Powder, off-white to light grey in colour
Melting point	-	Partially melts above 1400 °C
Bulk Density	-	2.65-2.75 g/cm <sup>3</sup>
Solubility	-	Partially soluble in water; insoluble in organic solvents
Flammability	-	Non-flammable

## 10) SAFETY AND REACTIVITY

Chemically inert to most acids, alkalis or solvents. **Attacked by hydrofluoric acid.**

## 11) TOXICOLOGY INFORMATION

Long term exposure to excessive concentrations of airborne dust created by careless handling or machining of kiln furniture articles may be harmful to the lungs.

## 12) ECOLOGICAL INFORMATION

Inert with respect to the environment. Non-biodegradable.

## 13) DISPOSAL CONSIDERATIONS

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

## 14) TRANSPORT INFORMATION

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

## 15) REGULATORY INFORMATION

CLP Classification, Labelling and Packaging of substances and mixtures (EC) No 1272/2008. Not classified - Hazard Warning Label not required.

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

## 16) OTHER INFORMATION

**Bibliography:** Workplace Exposure Limits EH40 (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.