

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

Products covered by this document:	Silicon Carbide powder (also called carborundum, SiC).
Relevant Uses	Used mainly as an abrasive, or as an ingredient in the preparation of ceramic glaze materials.
Company address:	IPS Ceramics Ltd, Unit 6 High Carr Business Park Decade Close Newcastle under Lyme ST5 7UH United Kingdom
Telephone:	+44 (0)1782 711511
E-mail:	enq@ipsceramics.com

2) HAZARDS IDENTIFICATION

The material is not classified as hazardous under CLP / GHS. The main hazard associated with silicon carbide powder is minor skin abrasion due to contact with the crystalline powder. The material is of low acute toxicity; however long-term exposure to any respirable dust created by careless handling of powders can be hazardous to health if precautions outlined in section 8 are not observed.

3) COMPOSITION / INFORMATION ON INGREDIENTS

Silicon carbide powder is made from naturally occurring minerals fired to over 2000°C. After processing the main mineral present is silicon carbide, however trace amounts of unreacted silica sand, coke and graphite may also be present.

Component	CAS number	Weight (%)	Danger symbol	Risk phrase	WEL (8hr TWA)
Silicon carbide	409-21-2	>99	None	None	Inhalable 10 mg / m ³ Respirable 4 mg / m ³

4) FIRST AID MEASURES

ROUTE	SYMPTOM	FIRST AID
Ingestion	Coughing	Give clean water to drink.
Inhalation	Coughing	Move away from source.
Contact with skin	Soreness in 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

Prevent further leakage or spillage. Loose powder should be gathered up by any method that avoids the creation of airborne dust.

7) HANDLING AND STORAGE

Unlimited shelf life. Store 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 3), respirators should be worn.

9) PHYSICAL AND CHEMICAL PROPERTIES

Appearance	-	Green to bluish-black, iridescent crystals. Fine powders appear grey.
Melting point	-	Does not melt. Sublimation occurs above 2800 °C
Bulk Density	-	2.9-3.15 g/cm ³
Solubility	-	Insoluble in water or organic solvents
Flammability	-	Non-flammable

10) SAFETY AND REACTIVITY

Chemically inert to most acids, alkalis or solvents.

11) TOXICOLOGY INFORMATION

Long term exposure to excessive concentrations of airborne dust created by careless handling of powders 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.