

Material Safety Data Sheet

**SILICON
CARBIDE
POWDER**

Date prepared: 4th August 1995

Date revised: December 2008

0CON-001

1. Identification of the Substance/Preparation and the Company/ Undertaking

Substance or preparation trade name: **Silicon carbide powder**

Unique reference number(s): **0CON-001 to 005, -266 to 273**

Company/undertaking name & address: **Logitech Ltd.,
Erskine Ferry Road, Old Kilpatrick, Glasgow
G60 5EU, Scotland, UK**

Telephone: **(+44) 1389 875444**

Emergency telephone number: **As above**

2. Composition

Substance: **Silicon carbide** **May also contain C,
Si, Fe₂O₃, CaO, MgO,
traces of crystalline
silica**

% content: **97.5-99.9% range**

CAS number: **409-21-2**

3. Hazards Identification

Critical hazards to man and environment: No specific toxicity for SiC grains

4. First Aid Measures

Inhalation: **No special measures required.**

Skin contact: **No special measures required.**

Eye contact: **Rinse immediately with plenty of water. Seek medical
attention if irritation persists.**

Ingestion: **No special measures required.**

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5. Fire-Fighting Measures

Suitable extinguishing media: **N/A - Not combustible**
Unsuitable extinguishing media: **N/A**
Special exposure hazards in fire: **N/A**
Required special protective equipment for fire-fighters: **N/A**

6. Accidental Release Measures

Personal precautions: **Avoid dust formation. Full personal protection equipment is necessary (see point 8).**
Environmental precautions: **N/E.**
Methods for cleaning: **Take up mechanically and dispose of according to regulations.**

7. Handling and Storage

Handling: **Avoid dust forming when handling.**
Storage: **No restrictions established.**

8. Exposure Controls

Exposure control limits, and source: **10mg/m³ - STEL. MAC value 4mg/m³ in terms of silicon carbide (fine dust).**
Respiratory protection: **Dust mask, with category P1 filter, when using dry powder.**
Hand protection: **Wear protective gloves.**
Skin protection: **N/A**
Eye protection: **Safety goggles or face mask**

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9. Physical and Chemical Properties

Appearance:	<i>Black or dark green powder.</i>
Odour:	<i>None.</i>
pH:	<i>N/E</i>
Boiling point:	<i>2000°C</i>
Melting point:	<i>N/A</i>
Flashpoint (°C):	<i>N/A - Not combustible</i>
Flammability:	<i>N/A</i>
Explosive properties:	<i>None established.</i>
Oxidising properties:	<i>N/E</i>
Vapour pressure:	<i>N/A</i>
Density:	<i>3.20 - 3.22 g/cm³ @ hPa 20°C</i>
Bulk density:	<i>700 - 1700 kg/m³</i>
Solubility:	<i>Insoluble in water.</i>

10. Stability and Reactivity

Stability:	<i>Stable</i>
Conditions to avoid:	<i>None established</i>
Materials to avoid:	<i>None</i>
Hazardous decomposition products:	<i>None</i>

11. Toxicological Information

Non-toxic. If stored and handled in accordance with standard industrial practice and applicable local regulations: no harmful effects (see section 16).

12. Ecological Information

Separation by sedimentation required. Possible nuisance dust. Ecotoxicological effects: N/E.

13. Disposal Considerations

Can be stored with domestic waste. Store in accordance with local regulations. German Waste Disposal Legislation Ref. No. 31444.

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14. Transport Information

Not Dangerous for Conveyance.

15. Regulatory Information

Supply label information: ***Not Dangerous for Supply.***

NOTE: THIS DATA SHEET DOES NOT CONSTITUTE A USER'S ASSESSMENT OF WORKPLACE RISK AS REQUIRED BY HSW ACT, COSHH, MANAGEMENT OF HEALTH AND SAFETY AT WORK REGULATIONS, OR OTHER HEALTH AND SAFETY LEGISLATION.

16. Other Information

Recommendations/restrictions: ***The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.***

Use: ***Used as an abrasive lapping powder.***

EINICS No: ***206 - 991 - 8 (Silicon Carbide, SiC)***

Sources of key data used to compile Safety Data Sheet: ***Croner's Hazard Information and Packaging, 3/95***

***Studies by the Institute for Hygiene and Industrial Medicine of the University of Essen failed to show that Silicon Carbide possesses any carcinogenic properties. Silicon Carbide was inert. This paper is published in the British Journal of Industrial Medicine 1993, Vol.50, issue 9, Part 1, pages 797-806 and Part 2, pages 807-813, under the title:
Toxicological investigations on Silicon Carbide.
1. Inhalation studies
2. In vitro cell tests and long term injection tests***

Abbreviations: ***N/E: Not established
N/A: Not available***

The data contained in this Safety Data Sheet has been supplied as required by the Chemicals (Hazard Identification and Packaging) Regulations 1993, as amended, for the purpose of protecting the health and safety of industrial and commercial users who are deemed capable of understanding and acting on the information provided.

Please ensure that it is passed to the appropriate person(s) in your company, who are capable of acting on the information.