

MATERIAL SAFETY DATA SHEET



Product name: SILICON CARBIDE POWDER Page: 1/5  
 Revision Date: 2004-09-02 Print date: 2004-09-02  
 P/N-no.: M1203057 SDS-ID: US4.0

1. IDENTIFICATION OF THE SUBSTANCE/ PREPARATION AND COMPANY/ UNDERTAKING

**Product name:** SILICON CARBIDE POWDER  
**Application:** Abrasive for mineralogical preparations **Container size:** 300; 500 g  
**Supplier:** Struers AIS  
 Pederstrupvej 84  
 DK-2750 Ballerup  
 Tel: +45 44 600 800

2. COMPOSITION/ INFORMATION ON INGREDIENTS

The product contains: abrasive.

%	CAS-No.	EC No.	Chemical name	Hazard classification	Notes
99.5-100	409-21-2	206-991-8	Silicon carbide		

3. HAZARDS IDENTIFICATION

The product has not been classified according to the legislation in force.

**Human health:** The hazardous properties of the product are considered limited. May cause minor irritation on skin contact.

**Environment:** The product is not expected to be hazardous to the environment.

4. FIRST-AID MEASURES

**Inhalation:** If uncomfortable during dust-raising work: Move into fresh air and keep at rest.  
**Skin contact:** If uncomfortable during dust-raising work: Remove contaminated clothes and rinse skin thoroughly with water.  
**Eye contact:** If irritation occurs during dust-raising work, flush with plenty of water for up to 15 minutes.  
**Ingestion:** Immediately rinse mouth and drink plenty of water. Keep person under observation. If person becomes uncomfortable take to hospital along with these instructions.

5. FIRE-FIGHTING MEASURES

**Extinguishing media:** Use fire-extinguishing media appropriate for surrounding materials.

**Specific hazards:** No specific precautions.

Customer No: 2018  
 Filing No: 45130

MATERIAL SAFETY DATA SHEET



Product name: SILICON CARBIDE POWDER Page: 2/5  
 Revision Date: 2004-09-02 Print date: 2004-09-02  
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6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Avoid contact with skin and eyes. Avoid inhalation of dust.  
**Environmental precautions:** Avoid release to the environment.  
**Methods for cleaning up:** Dampen spillage with water. Absorb spillage with suitable absorbent material. For waste disposal, see section 13.

7. HANDLING AND STORAGE

**Safe handling advice:** Avoid contact with skin and eyes. Avoid inhalation of dust. Observe good industrial hygiene practices.

**Technical measures:** Avoid spreading dust. Work practice should minimise contact.

**Technical precautions:** Local exhaust is recommended.

**Technical measures for safe storage:** No special precautions.

**Storage conditions:** Store in closed original container in a dry place.

Customer No: 2018  
 Filing No: 45130

MATERIAL SAFETY DATA SHEET



Product name: SILICON CARBIDE POWDER Page: 3/5  
 Revision Date: 2004-09-02 Print date: 2004-09-02  
 P/N-no.: M1203057 SDS-ID: US4.0

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

**Engineering measures:** Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of dust.

Chemical name:	Exposure limits:	Type:	Notes:	References:
Silicon carbide - Nonfibrous - inhalable fraction	10 mg/m <sup>3</sup>	TWA	-	ACGIH
Silicon carbide - Nonfibrous - respirable fraction	3 mg/m <sup>3</sup>	TWA	-	ACGIH
Silicon carbide - Fibrous forms (including whiskers)	0.1 f/cc	TWA	A2	ACGIH
Silicon carbide, Total dust	15 mg/m <sup>3</sup>	TWA	-	OSHA
Silicon carbide, Respirable fraction	5 mg/m <sup>3</sup>	TWA	-	OSHA

**Personal protection:** Personal protection equipment should be chosen according to the CEN standards and in collaboration with the supplier of the personal protective equipment.

**Respiratory equipment:** During dust-raising work: Use respiratory equipment with particle filter, type P2.

**Hand protection:** Risk of contact: Wear protective gloves.

**Eye protection:** Risk of contact: Wear goggles/face shield.

**Environmental Exposure Controls:** Demand for control of air pollution.

9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** black powder  
**Odor:** Odorless  
**pH:** not relevant  
**Boiling point:** not relevant  
**Flash point:** not relevant  
**Explosive properties:** not relevant  
**Relative density:** 1.1-1.54  
**Solubility:** insoluble in water

Customer No: 2018  
 Filing No: 45130

MATERIAL SAFETY DATA SHEET



Product name: SILICON CARBIDE POWDER Page: 4/5  
 Revision Date: 2004-09-02 Print date: 2004-09-02  
 P/N-no.: M1203057 SDS-ID: US4.0

10. STABILITY AND REACTIVITY

**Stability:** Stable under normal temperature conditions.

**Conditions/ materials to avoid:** Strong acids and strong bases.

**Hazardous decomposition products:** Not relevant.

11. TOXICOLOGICAL INFORMATION

**Inhalation:** Dust may irritate throat and respiratory system and cause coughing.

**Skin contact:** Prolonged contact may cause redness, irritation and dry skin.

**Eye contact:** Dust in the eyes will cause irritation.

**Ingestion:** May irritate and cause malaise.

**Specific effects:** Carcinogenicity: National Toxicology Program (NTP): No. I.A.R.C. Monographs: No. OSHA: No.

12. ECOLOGICAL INFORMATION

**Mobility:** The product is insoluble in water and will sediment in water systems.

**Degradability:** The degradability of the product has not been stated.

**Ecotoxicity:** The product is not expected to be hazardous to the environment.

**Bioaccumulative potential:** No data available on bioaccumulation.

**Other adverse effects:** None known.

13. DISPOSAL CONSIDERATIONS

Dispose of waste and residues in accordance with local authority requirements.

**Waste from residues:** EWC-code: 12 01 99

14. TRANSPORT INFORMATION

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

Customer No: 2018  
 Filing No: 45130

MATERIAL SAFETY DATA SHEET



Product name: SILICON CARBIDE POWDER Page: 5/5  
 Revision Date: 2004-09-02 Print date: 2004-09-02  
 P/N-no.: M1203057 SDS-ID: US4.0

15. REGULATORY INFORMATION

**Labelling:** Based on information from the manufacturer regarding the chemical composition of the product, an assessment by the Danish Toxicology Centre has shown that according to EEC Directives 67/548/EEC and 1999/45/EC, the product is not liable to classification and labelling.

**NFPA Rating:** -

**Specific provisions:** TSCA: Listed.

**National regulation:** Europe/USA: This Safety Data Sheet has been prepared according to the EU-regulation.

Threshold Limit Values (2004), ACGIH, by the American Conference on Governmental Industrial Hygienists.  
 The Code of Federal Regulation, Title 29, part 1910. Occupational Safety and Health Standards, Air contaminants.

16. OTHER INFORMATION

The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.

The following sections contain revisions or new statements: 1.

Approved by DTC.

*Christina Møgel*

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.

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Customer No: 2018  
 Filing No: 45130