

Material safety data sheet
according to Regulation (EC) No. 1907/2006 (REACH)
Silicon Carbide (SiC) for abrasive

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1 IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY

- 1.1 Product identification: Silicon Carbide - SiC
Commercial product name:
- 1.2 Relevant identified use: Abrasive used for sanding
- 1.3 Manufacturer/distributor: Dragon
PB No./street: C.E. Christiansens Vej 46
State/postal code/city: DK-4930 Maribo
Country: Denmark
Phone: +45 5449 1920
- 1.4 Emergency telephone number:
Denmark Toxic line: +45 8212 1212

2 HAZARDS IDENTIFICATION

- 2.1 **Classification of the substance or mixture:**
Classification (REGULATION (EC) No 1272/2008)
Not a hazardous substance or mixture.
- 2.2 **Label elements:**
Labelling (REGULATION (EC) No 1272/2008)
Not a hazardous substance or mixture.
- 2.3 **Other hazards:**
Vapours may form explosive mixture with air.

3 COMPOSITION/INFORMATION ON INGREDIENTS:

- 3.1 **Chemical characteristic:**
Definition according to EU-directive: CSi, Silicon Carbide (SiC)
CAS No.: 409 - 21 - 2
EINECS No.: 206 - 991 - 8

4 FIRST AID MEASURES

- 4.1 **Inhalation:**
No special action required.
- 4.2 **Skin:**
No special action required.
- 4.3 **Eye:**
Flush with plenty of water.
Seek medical advice if irritation persists.
- 4.4 **Ingestion:**
No special action required.

5 FIRE FIGHTING MEASURES

- 5.1 **General measures:**
Not inflammable.
- 5.2 **Suitable extinguishing agents:**
Use extinguishing measures appropriate to the source of the fire.



5.3 Extinguishing media which must not be used for safety reasons:
None known.

5.4 Special exposure hazards arising from the substance itself, combustion products, resulting gases:
None known.

5.5 Special protective equipment:
Not applicable.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions:
Avoid dust formation. (see also item 8.3)

6.2 Environmental precautions:
No special measures required.

6.3 Methods for cleaning:
Take up mechanically and dispose of in accordance to regulations.

7 HANDLING AND STORAGE

7.1 Handling:
Precautions for safe handling:
Avoid dust formation.

Precautions for fire and explosion:
No danger of fire and dust explosion.

7.2 Storage:
Conditions of storage and vessels:
No special precautionary measures.

Advice of storage of incompatible materials:
None.

Further information for storage:
None.

8 EXPOSURE CONTROL AND PERSONAL PROTECTION

**8.1 Further information for system
Design and engineering measures:**
Not applicable

8.2 Components with specific control parameters as limit values:
Observe the local bylaws in terms of fine dust (e.g.: TWA value 5 mg/m³ ; MAK value 4 mg/m³, see also item 16)

**8.3 Personal protective equipment:
General protection and hygiene measures:**
Observe standard industrial hygiene practice.

Respiratory protection:
Avoid inhaling dust.
Fine-dust mask with category P2 filter must be used if fine dust limits are exceeded.



Hand protection:

Protective gloves are recommended.

Eye protection:

Safety glasses are recommended.

9 PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 **Appearance:**
Form: Crude, grain, powder.
Colour: Green, dark, black.
Odour: Odourless.
- 9.2 **Safety parameters:**
Change in physical state: Does not melt.
Flash point: Not applicable
Flammability: Not applicable
Ignition temperature: Not applicable
Auto flammability: Not applicable
Oxidizing properties: Not applicable
Explosive properties: Not applicable
Explosive limits: Not applicable.
Vapour pressure: Not applicable
Specific gravity: Approx. 3,2 g/cm³.
Bulk density: (700 – 1700) kg/m³.
Solubility in water: Insoluble.
pH-value: Not applicable.
Partition coefficient n-octanol/water: Not applicable.

10 STABILITY AND REACTIVITY

- 10.1 **General information:**
The material is stable, no hazardous reactions known.
- 10.2 **Conditions to avoid:**
Not applicable.
- 10.3 **Materials to avoid:**
Not applicable.
- 10.4 **Hazardous decomposition products:**
Non known.

11 TOXIOLOGICAL INFORMATION

- 11.1 **General information:**
No hazardous effects known (see also item 16)
- 11.2 **Acute toxicity:**
Not known.

12 ECOLOGICAL INFORMATION

- 12.1 **Information on elimination**
Chemically inert and insoluble in water.
(persistence and degradability):
Separation by mechanical processes (sedimentation, filtration etc.)



12.2 Behaviour in environmental compartments:

No environmental problems known.

12.3 Ecotoxicity:

None known.

12.4 Further ecological information:

No environmental problems expected, if handled and treated in accordance with standard industrial practice.

13 DISPOSAL CONSIDERATIONS:

13.1 Material:

Can be stored with domestic waste. Observe local byelaws.

13.2 Contaminated packaging:

Not applicable.

14 TRANSPORT INFORMATION

14.1 Land transport:

GGVS / GGVE – classification: Non hazardous material.
RID / ADR: Non hazardous material.

14.2 Inland waterways:

ADN / ADN R – classification: Non-hazardous material

14.3 Maritime transport:

IMDG / GGV – classification: Non-hazardous material
UN Number: Not classified

14.4 Air transport:

ICAO / IATA – classification: Non hazardous material
UN/ID Number: Not classified

15 REGULATORY INFORMATION

**15.1 Classification according to EC guidelines:
Danger-symbol and danger-text of the product:**

EC/R: None
EC/S: None

15.2 National regulations:

e.g.: Germany, WGK 0 (self-classification) (e.g.: Water pollution category)

16 OTHER INFORMATION

Studies by the Institute for Hygiene and Industrial Medicine of the University of Essen showed that silicon carbide possesses no toxic or carcinogenic properties. Silicon carbide is inert. This paper was published in: British Journal of Industrial Medicine 1993, vol 50, issue 9, part 1, pages 797-806, under the title

Toxicological investigations on silicon carbide.

1. Inhalation studies.
2. In vitro cell tests and long-term injection tests.

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This information covers the safety requirements of the product(s) exclusively and is based on current knowledge and experience. It does not represent a guarantee for properties of the described product(s) in terms of the legal warranty regulations.
The product specification is contained in a separate product data sheet.