

Safety Data Sheet according to Regulation (EC) No. 1907/2006



Trade name: Silicon carbide
Manufacturer / supplier: Kuhmichel Abrasiv GmbH

Print date: 26.08.2011
Revised on: 26.08.2011

01. Identification of the substance or preparation and of the company

Trade name
Silicon carbide

Use of the substance / preparation
Mineral blasting abrasive for industrial use.

REACH registration number
Pre-registered. Registration for 2013
CPL-Notification number: 02-2119706615-41-0000

Manufacturer / supplier
Kuhmichel Abrasiv GmbH

Street
Am Rosenbaum 22

Country / postal code / city
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+49 (0) 2102 93979-99 (during normal business hours)

02. Possible hazards

Hazards identification
Not subject to labelling requirements in terms of the Dangerous Preparations Directive 1999/45/EC.

However, adhere to the information in this safety data sheet.

No silicosis hazard derives from its use.

Special hazard notices for humans and the environment
Potential dust load in case of respirable dust.

03. Composition/specifications of ingredients

Characteristic chemical data of the product	EINECS	CAS NO.
Siliconcarbide (SiC)	206-991-8	409-21-2

Hazardous ingredients
Contains no hazardous ingredients.

Other ingredients (average values)
Siliconcarbide (SiC) 98,00%

Substances with specified EC threshold values
Contains no substances with specified EC threshold values.



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04. First-aid measures

General information

Seek medical advice at the occurrence of a health disorder.

After inhalation

Ensure supply of fresh air. Consult a doctor in case of irritation of the respiratory tracts.

After skin contact

Wash with water and rinse.

After eye contact

Remove contact lenses, hold eyelids open and rinse generously with clean, flowing water for at least 10 minutes. Consult a doctor if necessary.

After ingestion

Rinse mouth and drink plenty of water. Do not induce vomiting. In case of sickness, consult a doctor.

Advice to medical doctor

No information available.

05. Fire-fighting measures

Suitable extinguishing media

Product does not burn. Match extinguishing measures to surroundings.

Extinguishing media that must not be used

None known.

Special hazards by the substance or the preparation itself, its combustion products or resulting gases

None known.

Special protective equipment for fire-fighting

None known.

Additional information

None known.

06. Accidental release measures

Personal precautions

Avoid dust formation. Adhere to safety measures under point 7 and 8.

Environmental precautions

None known.

Methods for cleaning up

Collect mechanically and dispose of according to regulations.

Additional information

None known.

07. Handling and storage

Advice on safe handling

Avoid dust formation.

Advice on protection against fire and explosion

No special fire protection measures are required.

...Continue on next page

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Additional advice

None known.

Information on storage conditions

Store product in a dry place.

Requirements for storage facilities and containers/vessels

No special requirements.

VCI storage class

Storage class 13 (non-combustible solids).

Specific uses

Recycled alumina oxide is used for the manufacture of or use as blasting or grinding abrasives.

08. Exposure control / personal protection

Workplace exposure limits and/or biological limits

German workplace exposure limits (WEL) for inhalable dust

Inhalable dust	10mg/m ³
Respirable dust	1,5mg/m ³

Occupational exposure limits (OEL) of the European Union

Country-specific. Enquire in specific cases.

Exposure control

Technical measures and the implementation of suitable operational processes have preference over the use of personal precautions. Since Silicon carbide is not a hazardous substance. Nevertheless, please take note of the TRGS 402 and TRGS 900.

Personal protective equipment

The type of personal protective equipment must be selected depending on the concentrations and quantities of hazardous substances, specific to the workplace.

Respiratory protection

Generally no personal respiratory protection is needed.

In case of inadequate ventilation or exceeding of the workplace exposure limits a protective breathing mask must be worn (FFP [filtering face piece] filter half mask depending on the existing concentration).

Hand protection

Glove material: leather.

Eye protection

Tight-fitting safety goggles. Use (flexible mask goggles) in compliance with EN 166:2001.

Skin protection

No skin protection by means of half or full body protective suit and boots is required at appropriate application.

Industrial hygiene measures

The minimum standards for safety measures in the handling of working materials are contained in the TRGS 500. Do not eat, drink, smoke or sniff while working.

Avoid contact with skin, eyes and clothing. Remove soiled or soaked clothing immediately. Wash hands before breaks and after work.

Use appropriate skin protection products.

Environmental exposure controls

See section 6 and 7. No measures over and above required.

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09. Physical and chemical properties

Form	Edged
Physical state	Solid
Colour	Black
Odour	Odourless
Important health, safety and environmental information	
Explosive properties The product is not explosive, however, the formation of explosive dust-air mixtures are possible.	
Lower explosive limit	None known.
Upper explosive limit	None known.
Vapour pressure	Not relevant.
Density	approx. 3.2 g/cm ³
Expiry time	Not relevant.
Solubility in water	Not water-soluble.
pH value	Not applicable.
Boiling point	Not applicable.
Flashpoint	Not determined, since the product is not flammable.
Melting point	approx. 2,300°C
Ignition temperature	Not determined, since the product is not flammable.

The information on explosion limits is based on Silicon carbide. Further physical-chemical data can be obtained from the technical data sheet.

10. Stability and reactivity

Conditions to avoid

In case of appropriate use, there are no known conditions to be avoided.

Materials to avoid

In case of appropriate use, no hazardous reactions are to be expected.

Hazardous decomposition products

In case of appropriate use, there are no known hazardous decomposition products.

11. Toxicological information

Toxicokinetics, metabolism and distribution

According to the BGIA (Institute for Occupational Safety and Health) Expert Opinion No. 2009/23295/9311 of 18.11.2009 mat-loe the Silicon carbide does not contain any silicogenic, toxic and carcinogenic components.

Acute toxicity, irritability and cauterisation

No information available on product.

Sensitivity (skin, respiratory tract)

No information available on product.

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Toxicity at repeated intake/absorption (subacute, subchronic and chronic)

Silicon carbide is not known for toxicity.

CMR effects (carcinogenic, mutagenic and reprotoxic effects)

According to BGIA Expert Opinion no carcinogenic effects have been identified.

Summary of assessment of CMR properties

No known CMR properties.

Practical experiences (classification-related and other observations)

No information available on product.

Other information

None known

12. Ecological information

Ecotoxicity

No ecological problems are to be expected if Silicon carbide is handled and used correctly.

Fish toxicity

There are no harmful effects on water organisms.

Aquatic invertebrates

There are no harmful effects on water organisms.

Aquatic plants

There are no harmful effects on water organisms.

Mobility

According to current experiences this product is not soluble in water.

Persistence and degradability

According to current experiences this product is inert and degradable.

Bioaccumulation potential

No data available. A concentration in organic material is rather improbable since it is inert and insoluble.

Results of the verification of the PBT properties (persistent, bioaccumulative and toxic)

The ingredients in this product do not fulfil the criteria to be classified as PBT or vPvB (Very Persistent and Very Bioaccumulative).

Other harmful effects

No known harmful effects.

13. Disposal considerations

Substance / preparation

Silicon carbide

Recommendation

Contact the company Kuhmichel Abrasiv GmbH about recycling of the used Silicon carbide.

Disposal code according to the Waste Catalogue Ordinance

120117 blasting abrasive wastes with the exception of those that fall under 120116.

Packaging / contaminated packaging

Packaging with Silicon carbide residue in the paper bag or in the big bag can be recycled.

Cleaned packaging

Cleaned packaging can be used again or be recycled.



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14. Transport information

Land transport ADR/RID

Not considered hazardous goods in terms of these transport regulations.

Transport by sea IMDG Code/GGVSee

Not considered hazardous goods in terms of these transport regulations.

Air transport ICAO-TI and IATA-DGR

Not considered hazardous goods in terms of these transport regulations.

15. Regulatory information

Chemical safety assessment (CSA)

A chemical safety assessment for substances in this product was not performed.

Classification/labelling according to EEC directives

None required.

Symbol(s) and hazard designation(s) of the product

None required.

Hazard-determining components of labelling

Does not contain any.

Contains

Does not contain any.

R phrases

Not required.

S phrases

- 22 Do not inhale dust.
- 26 In case of eye contact, immediately rinse thoroughly with water and consult a doctor.
- 37/39 Wear suitable protective gloves and goggles.

Information on labelling

The product is not subject to labelling requirements.

EU regulations

None known.

National regulations

Water hazard class

Not hazardous to water, classification according to VwVwS (Administrative Regulation on Substances Hazardous to Water), Attachment 4.

Technical Instructions on Air Quality Control (TA-Luft)

Ingredients not specifically mentioned.

Hazardous incident (reporting) ordinance (12.BImSchV)

Ingredients not specifically mentioned.

Solvents ordinance (31.BImSchV)

Ingredients not specifically mentioned.

Chemicals prohibition ordinance (CPO)

Ingredients not specifically mentioned.

Relevant technical regulations for hazardous substances

None known, since it contains no hazardous substances.

Occupational restrictions

None known.

... Continue on next page

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Miscellaneous

Not subject to the volatile organic compounds (VOCs) directive.

International regulations

All Silicon carbide ingredients are TSCA (Toxic Substances Control Act) listed.

16. Other information

Supporting EU directives

None known.

Application restrictions recommended by manufacturer

Only for industrial use.

Other notices

The information in this safety data sheet is based on the best of our knowledge at the time of going to print. The information should provide you with guidelines on the safe handling and use of the product mentioned in this safety data sheet with regard to storage, processing, transport and disposal. The information cannot be transferred to other products.

Insofar as the product mentioned in this safety data sheet is combined, mixed or processed with other materials, or subjected to a processing procedure, the information in this safety data sheet, insofar as something else does not expressly result from this, cannot be transferred to the new material produced this way.

Amendments compared with the last version

01.10.2009 Adjustment in compliance with REACH Regulation (EC) No. 1907/2006

04.01.2010 Adjustment new BGIA – Expert Opinion

26.08.2011 Adjustment registration number + CLP notification number 04.01.2011

Safety data sheet issuing division

Product stewardship Kerstin Knein (Tel.: +49 (0) 2102 93979-27)

The information is based on our present knowledge. However, it does not constitute a guarantee for any product properties and does not establish a legally valid contractual relationship.