



**Lapping powder silicon carbide**

Print date 19.06.2024  
Revision date 19.06.2024  
Version 1.0 (en)

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

**Trade name/designation** Lapping powder silicon carbide

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

**Sector of uses [SU]**

SU3 Industrial uses

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

**Use of the substance/mixture**

Cutting, grinding, polishing

**Uses advised against**

This information is not available.

**1.3 Details of the supplier of the safety data sheet**

**Supplier**

joke Technology GmbH  
Asselborner Weg 14-16  
D-51249 Bergisch Gladbach  
Telephone +49 (0) 22 04 / 8 39-0  
Telefax +49 (0) 22 04 / 8 39-60  
E-mail [info@joke.de](mailto:info@joke.de)  
Website <https://www.joke-technology.com/>

**Department responsible for information:**

Telephone +49 (0) 22 04 / 8 39-0  
Telefax +49 (0) 22 04 / 8 39-60

E-mail (competent person):  
[sida@joke.de](mailto:sida@joke.de)

**1.4 Emergency telephone number**

Vergiftungs-I-Z. Freiburg (Sprache / Language: DE, EN) +49 (0) 761 / 1 92 40  
REACH and CLP UK CA Help Desk +44 171 635 9191

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**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

**Remark**

The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

**2.2 Label elements**

**Additional information**

For this product, a hazard label is not required according to section 1.3.4 of Annex I of the CLP regulation.

**2.3 Other hazards**

**Adverse physicochemical effects**

SiC does not meet the criteria for classification as a PBT or vPvB substance.  
No specific toxicity is described in the literature for SiC raw materials and granules. SiC is not listed as a hazardous substance According to the ACGIH, SiC is specified as insoluble or hardly soluble (PNOS)

**Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

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**SECTION 3: Composition / information on ingredients****3.1 Substances**

not applicable

**3.2 Mixtures****Hazardous ingredients**

CAS No	EC No	Index No	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
409-21-2	206-991-8		Siliciumcarbid (SiC)	80 - 99.9 weight-%		

REACH No.	Substance name
01-2119402892-42-xxxx	Siliciumcarbid (SiC)

**Additional information**

May also contain traces of Si, Al<sub>2</sub>O<sub>3</sub>, Fe<sub>2</sub>O<sub>3</sub>, CaO, MgO and inhalable crystalline silica (less than 0.01% by weight).

(less than 0.01% by weight, the legal limit is 0.1% by weight).

0.1% by weight)

Unreacted sand EC No.: 238-879-4, CAS 14808-60-7

Unreacted petroleum coke EC No.: 265-080-3, CAS 64741-79-3

Graphite EC No.: 231-955-3, CAS 7782-42-5

**Remark**

Contain no dangerous ingredients.

**SECTION 4: First aid measures****4.1 Description of first aid measures****General information**

No special measures required.

**Following inhalation**

No special measures required.

**Following skin contact**

In case of skin irritation, consult a physician.

Mechanical irritant, prolonged contact may cause skin abrasions.

may cause abrasions.

**After eye contact**

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Mechanical irritant, prolonged contact may cause tearing and redness.

If eye irritation persists: seek medical attention (eye specialist or occupational physician).

**Following ingestion**

If swallowed seek medical advice immediately and show the doctor packing or label.



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**4.2 Most important symptoms and effects, both acute and delayed**

**Symptoms**

This information is not available.

**Effects**

This information is not available.

**4.3 Indication of any immediate medical attention and special treatment needed**

**Notes for the doctor**

Treat symptomatically.

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**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media**

Match fire extinguishing measures to the surrounding area.

**Unsuitable extinguishing media**

This information is not available.

**5.2 Special hazards arising from the substance or mixture**

**Hazardous combustion products**

No special hazards known, neither from the product itself nor from its combustion its combustion products or resulting gases.

**5.3 Advice for firefighters**

**Special protective equipment for firefighters**

This information is not available.

**Additional information**

Co-ordinate fire-fighting measures to the fire surroundings.

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**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel**

Avoid dust formation.

Use a disposable dust mask (at least P2).

**6.2 Environmental precautions**

No special measures required.

**6.3 Methods and material for containment and cleaning up**

**For containment**

Send in suitable containers for recovery or disposal.

Take up mechanically and send for disposal.

**6.4 Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8



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**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

**Protective measures**

Avoid the formation of dust.  
 Do not inhale dust.

**Advices on general occupational hygiene**

When using do not eat, drink, smoke, sniff.  
 Thorough skin-cleansing after handling the product.  
 Keep away from food and drink.

**7.2 Conditions for safe storage, including any incompatibilities**

**Requirements for storage rooms and vessels**

No special measures required.

**Materials to avoid**

Do not store together with:  
 Food and feedingstuffs

**7.3 Specific end use(s)**

No data available

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

**Occupational exposure limit values**

CAS No	EC No	Substance name	occupational exposure limit value
409-21-2	206-991-8	Silicon carbide (not whiskers)	10 (1) 3 (2) 0,1 F/cm <sup>3</sup> [mg/m <sup>3</sup> ] (1) Inhalable fraction (2) Respirable fraction (IE)
409-21-2	206-991-8	Silicon carbide fibres (incl. whiskers), respirable fraction	4 [mg/m <sup>3</sup> ] (IE)
409-21-2	206-991-8	Silicon carbide (not whiskers)	10 inhalable aerosol 4 respirable aerosol [mg/m <sup>3</sup> ] (UK)

**8.2 Exposure controls**

**Appropriate engineering controls**

**Technical measures to prevent exposure**

ventilation system

Compliance with the dust exposure limits must be ensured using suitable control technology (this includes the existence of an air control plan, suitable sampling equipment and statistical evaluation of dust levels).

**Personal protection equipment**

**Eye/face protection**

tightly fitting goggles



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**Hand protection**

impermeable gloves

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

**Body protection:**

Protective clothing

**Respiratory protection**

Suitable respiratory protection apparatus:  
 Short term: filter apparatus, Filter P2

**Thermal hazards**

This information is not available.

**Environmental exposure controls**

**Technical measures to prevent exposure**

This information is not available.

**Additional information**

The national and local legal regulations are to be observed.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

**Physical state**

Powder

**Colour**

green  
 dark green  
 black  
 grey

**Odour**

odourless

**Safety relevant basis data**

	Value	Method	Source, Remark
Odour threshold:	not determined		
Melting point/freezing point	not determined		
Boiling point or initial boiling point and boiling range	not determined		
flammability	not determined		
Lower and upper explosion limit	not determined		
Flash point	not determined		
Auto-ignition temperature	not determined		
Decomposition temperature	not determined		
pH	not determined		
Viscosity	not determined		
Solubility(ies)	Water solubility		practically insoluble



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	Value	Method	Source, Remark
Partition coefficient n-octanol/water (log value)	not determined		
Vapour pressure			not determined
Density and/or relative density	approx. 3.2 g/cm <sup>3</sup>		
Density and/or relative density	Bulk density 500- 1900 kg/m <sup>3</sup>		
Relative vapour density	not determined		
particle characteristics	not determined		

**9.2 Other information**

**Other information**

Dust content : According to standard EN 15051

**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

No hazardous reactions known.

**10.2 Chemical stability**

stable

**10.3 Possibility of hazardous reactions**

No hazardous reactions known.

**10.4 Conditions to avoid**

This information is not available.

**10.5 Incompatible materials**

No hazardous reactions known.

**10.6 Hazardous decomposition products**

This information is not available.

**SECTION 11: Toxicological information**

**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

**Acute toxicity**

**Animal data**

	Effective dose	Method,Evaluation	Source, Remark
Acute oral toxicity	not determined		
Acute dermal toxicity	not determined		
Acute inhalation toxicity	not determined		

**Assessment/classification**

When used as directed  
 no adverse effects are to be expected.  
 The material is chemically inert and not bioavailable.



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**Skin corrosion/irritation**

**Assessment/classification**

No adverse effects identified based on available data.

**Serious eye damage/irritation**

**Assessment/classification**

No adverse effects identified based on available data.

**Sensitisation to the respiratory tract**

**Assessment/classification**

No information available.

**Skin sensitisation**

**Assessment/classification**

No adverse effects identified based on available data.

**Germ cell mutagenicity**

**Assessment/classification**

No adverse effects identified based on available data.

**Carcinogenicity**

not determined

**Reproductive toxicity**

not determined

**Overall Assessment on CMR properties**

No adverse effects identified based on available data.

**STOT-single exposure**

**STOT SE 1 and 2**

**Other information**

No data available

**STOT-repeated exposure**

**Assessment/classification**

No adverse effects identified based on available data.

**Aspiration hazard**

**Remark**

No data available

**11.2 Information on other hazards**

**Additional information**

No adverse effects identified based on available data.

**Other information**

No adverse effects identified based on available data.



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**SECTION 12: Ecological information**

**12.1 Toxicity**

**Aquatic toxicity**

	Effective dose	Method, Evaluation	Source, Remark
Acute (short-term) fish toxicity	not determined		
Chronic (long-term) fish toxicity	not determined		
Acute (short-term) toxicity to crustacea	not determined		
Chronic (long-term) toxicity to aquatic invertebrate	not determined		
Acute (short-term) toxicity to algae and cyanobacteria	not determined		
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	not determined		
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	not determined		

**12.2 Persistence and degradability**

**Assessment/classification**

Chemically inert and insoluble in water, separation by mechanical processes (sedimentation, filtration, etc...)

**12.3 Bioaccumulative potential**

**Assessment/classification**

This information is not available.

**12.4 Mobility in soil**

**Assessment/classification**

This information is not available.

**12.5 Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**12.6 Endocrine disrupting properties**

No data available

**12.7 Other adverse effects**

**Additional ecotoxicological information**

**Additional information**

Material has no ecologically harmful effects.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

**Appropriate disposal / Product**

Dispose of waste according to applicable legislation.

**Appropriate disposal / Package**

Non-contaminated packages may be recycled.





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**SECTION 14: Transport information**

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.1 UN number or ID number</b>	-	-	-
<b>14.2 UN proper shipping name</b>	-	-	-
<b>14.3 Transport hazard class(es)</b>	-	-	-
<b>14.4 Packing group</b>	-	-	-
<b>14.5 Environmental hazards</b>	-	-	-

**14.6 Special precautions for user**  
 none

**14.7 Maritime transport in bulk according to IMO instruments**  
 No data available

**All transport carriers**  
 No dangerous goods as defined by the transport regulations - ADR/RID, IMDG, ICAO/IATA-DGR.

**Land transport (ADR/RID)**  
**Remark**  
 Not classified for this transport carrier.

**Sea transport (IMDG)**  
**Remark**  
 not classified as "DANGEROUS GOODS"

**Air transport (ICAO-TI / IATA-DGR)**  
**Remark**  
 not classified as "DANGEROUS GOODS"

**SECTION 15: Regulatory information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**EU legislation**

**Authorisations**  
 No data available

**Restrictions on use**  
 No data available

**Other regulations (EU)**

**To follow:**  
 Contains no substance listed in REACH Annex XIV.

**15.2 Chemical Safety Assessment**



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**National regulations**

A chemical safety assessment was not carried out.

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**SECTION 16: Other information**

**Indication of changes**

\* Data changed compared with the previous version

**Abbreviations and acronyms**

ATE: Acute Toxicity Estimate  
ATEmix: Acute Toxicity Estimate for Mixtures  
CLP: Classification, Labelling and Packaging  
EN: European Standard  
GefStoffV: Ordinance on Hazardous Substances  
IATA: International Air Transport Association  
JArbSchG: Youth Labor Protection Act (DE)  
MuSchRiV: Maternity Protection Guideline Ordinance (DE)  
PBT: persistent and bioaccumulative and toxic  
REACH: Registration, Evaluation and Authorization of Chemicals  
SCL: Specific concentration limit  
SVHC: Substance of Very High Concern  
vPvB: very persistent, very bioaccumulative  
WGK: water hazard class  
CSA: Chemical Safety Assessment

**Key literature references and sources for data**

Datasheets of the manufacturer  
<http://echa.europa.eu/>.

**Additional information**

National and local regulations concerning chemicals shall be observed.  
This safety data sheet complies with the requirements of Commission Regulation (EU) 2020/878 amending Regulation (EC) No 1907/2006.  
The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.