



MICROBEADS AG  
Wambisterstrasse 1a, CH-5412 Gebenstorf / Switzerland  
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**Trade name : Silicon carbide - SiC**

**Material Safety Data Sheet according (in support) to Directive (EG) no. 1907/2006**

Issue date: January 2020

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**1. Identification of the product and of the company/undertaking**

**Trade name:** Silicon carbide - SiC  
**REACH Reg. no.:** 01-2119402892-42-0014  
**Description:** Electro fused ceramic beads

**Use of the substance/  
preparation:** Refractory's, abrasives, steel manufacturing, ceramics.

**Relevant identified uses of the substance or mixture and uses advised against**  
Use advised against: None advised against.

**Company/undertaking  
identification:** MICROBEADS AG  
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Emergency phone no.: 0041 56 441 16 11

**2. Hazards identification**

**Description of hazard** The substance is not classified as dangerous according to regulation (EC) no. 1272/2008. The substance is not classified as dangerous according to directive 67/548/EEC.

**3. Composition / information on ingredients**

Substances	Identification	Classification	Contents
Component name			
Silicon carbide	CAS no.: 409-21-2 EC no.: 206-991-8		75 - 99 %
Column headings	CAS no. = Chemical Abstracts Service; EU (Einecs or Elincs number) = European inventory of Existing Commercial Chemical Substances; Ingredient name = Name as specified in the substance list (substance that are not included in the substance list must be translated, if possible). Contents given in: %, %wt/wt; %vol/wt; %vol/vol; mg/m <sup>3</sup> ; ppb, ppm, weight%, vol%		
HH/HF/HE	T+ = Very toxic; T = Toxic; C = Corrosive; Xn = Harmful, Xi = Irritating; E = Explosive; O = Oxidizing; F+ = Extremely flammable; F = Very flammable; N = Environmental hazard		
Component comments:	Contains traces of C, Si, Fe <sub>2</sub> O <sub>3</sub> , CaO, MgO and crystalline silica where the content of a-quartz in respirable form is less than the limit being subject for classification. (< 0,1 %)		



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**4. First aid measures**

**Description of first aid measures**

<b>General</b>	If in doubt, seek medical advice.
<b>Inhalation</b>	Fresh air and rest. Get medical attention if any discomfort continues.
<b>Skin contact</b>	Wash with water and soap as a precaution. Get medical attention if any discomfort continues.
<b>Eye contact</b>	Immediately rinse with water for several minutes. any contact lenses. Contact physician if discomfort continues.
<b>Ingestion</b>	Not relevant. Rinse nose, mouth and throat with water. Consult a physician for specific advice.

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

Acute symptoms and effects	None known.
Delayed symptoms and effects	None known.

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

Other information	No specific treatment required.
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**5. Fire fighting measures**

<b>Suitable extinguishing media:</b>	Use fire-extinguishing media appropriate for surrounding materials.
<b>Specific hazards arising from the substance or mixture:</b>	The product is non-combustible.
<b>Advice for fire-fighters</b>	
<b>Personal protective equipment:</b>	Use fresh air equipment when the product is involved in fire. In case of evacuation, an approved protection mask should be used. See also sect. 8.

**6. Accidental release measures**

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

<b>Personal precautions:</b>	Avoid dust information. Use protective equipment as referred to in section 8.
<b>For non-emergency personal For emergency responders</b>	
<b>Environmental precautions:</b>	Avoid release to the environment.
<b>Methods and material for containment and cleaning up:</b>	
<b>Methods for cleaning:</b>	Use mechanical handling equipment. Collect in suitable containers and deliver as waste according to section 13.
<b>Reference to other sections</b>	
<b>Other instructions:</b>	See also section 7 or 8.

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**7. Handling and storage**

**Precautions for safe handling**

**Handling:**

Avoid handling which leads to dust formation. Use protective equipment as referred to in section 8. Avoid inhalation of dust. Avoid contact with eyes and skin.

**Protective measures**

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

**Storage:**

No special storage precautions noted.

**Further information on storage conditions (UK)**

None.

**Specific end use(s)**

**Specific use(s):**

No information given.

**8. Exposure controls / personal protection**

**Control parameters**

**Exposure controls**

**Exposure limit values**

Component name	Identification	Value	Year
Respirable dust		8 h : 4 mg/m <sup>3</sup>	2007
Total inhalable dust		8 h : 10 mg/m <sup>3</sup>	2007

**Exposure limits**

**Biological limits**

**DNEL / PNEC**

**Precautionary measures to prevent exposure**

**Appropriate environmental exposure control**

**Exposure controls**



**Occupational exposure controls:** Provide adequate ventilation. Mechanical ventilation required. Do not eat, drink or smoke during work. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. The listed protective equipment is a recommendation. A risk assessment of the actual risk may lead to other requirements.

**Eye / face protection:**

Wear approved safety goggles.

**Skin protection:**

**Hand protection**

Use gloves suitable for the work. The product is solid and cannot penetrate normal glove materials. Wear appropriate protective clothing to protect against skin contact.

**Skin protection**

(other than of the hands)

**Respiratory protection:**

Use mask with filter P2/P3 in case of dust formation.

**Thermal hazards**



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**9. Physical and chemical properties**

<b>Physical State:</b>	Powder. Grains.
<b>Colour:</b>	Green, dark green and black
<b>Odour:</b>	None
<b>Solubility in water:</b>	Insoluble.
<b>Specific gravity:</b>	<b>Value:</b> ~ 3,2 g/cm <sup>3</sup>
<b>Bulk density:</b>	<b>Value:</b> 700 - 1700 kg/m <sup>3</sup>
<b>Flash point:</b>	<b>Comments:</b> Not applicable
<b>Explosive properties:</b>	<b>Properties:</b> Not applicable
<b>Explosive limit:</b>	<b>Comments:</b> Not applicable
<b>Spontaneous combustibility:</b>	<b>Comments:</b> Not applicable
<b>Oxidising properties:</b>	Not applicable
<b>Other physical and chemical properties</b>	
<b>Physical and chemical properties:</b> Dustiness < 0,1 % according to EN 15051 standard.	

**10. Stability and reactivity**

<b>Reactivity:</b>	No reactivity hazard.
<b>Chemical Stability:</b>	Stable under normal temperature conditions and recommended use.
<b>Possibility of hazardous reactions:</b>	No hazardous reactions known.
<b>Conditions to avoid:</b>	None known.
<b>Incompatible materials</b>	
<b>Materials to avoid</b>	None expected.
<b>Hazardous decomposition products:</b>	No hazardous decomposition products.

**11. Toxicological information**

**Other information regarding health hazards**

General	Non-fibrous forms of SiC, sometimes referred to as "angular" particles, are irregular in shape and occur as respirable and non-respirable particles. The non-fibrous forms of SiC have very low toxicity in humans and experimental animals. The TLV-TWA for non-fibrous forms, is therefore, set at the level of "poorly" soluble particles, not otherwise specified (PNOS), 10 mg/m <sup>3</sup> for inhalable particles, and 3 mg/m <sup>3</sup> for respirable particles (ACGIH Toxicology review 2001).
Inhalation:	May cause irritation to the respiratory system.
Skin contact:	Dust may irritate the skin in a mechanical way.
Eye contact:	Dust may irritate eyes mechanically.
Ingestion:	Not likely due to product form.
Chronic effects:	Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.
Sensitisation:	Sensitizing properties are not known.
Carcinogenicity:	Carcinogenic properties are not known.
Teratogenic properties:	Effects on fetus development are known.
Reproductive toxicity:	Effects harmful to reproduction are not known.
Mutagenicity:	Mutagenic properties are not known.



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**12. Ecological information**

**Toxicity**

**Other ecological on information**

Ecotoxicity

The product is not classified as dangerous for the environment.

**Persistence and degradability:**

Contains only inorganic chemicals. Separation by mechanical processes (sedimentation, filtration, etc.)

**Bioaccumulative potential:**

Not expected to bioaccumulate.

**Mobility in soil:**

Inert material not soluble in water. Will sink in water.

**Results of PBT and vPvB assessment**

**PBT assessment results:**

No PBT or vPvB substance.

**Other adverse effects:**

**Environmental details, conclusion:** The product is not regarded as environmental hazardous.

**13. Disposal considerations**

EWC waste code

EWC: 06 08 99 wastes not otherwise specified

Product classified as hazardous waste:

No

Packaging classified as hazardous waste:

No

**Waste treatment methods**

Specify the appropriate methods of disposal:

Dispose of waste in local landfill. The waste code (EWC-Code) is intended as a guide. The code must be chosen by the user, if the use differs from the one mentioned above.

**14. Transport information**

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Other applicable information:

Not considered as dangerous goods under UN, IMO, ADR/RID or IATA/ICAO regulations.

**15. Regulatory information**

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

References (laws/regulations)

CHIP Regulations. The Chemicals (Hazard Information and Packaging for Supply) Regulation. Directive (EC) No. 1907/2006 (REACH) Annex II: Safety data sheets. Occupational Exposure Limits: EH40/2007. The Hazardous Waste (England and Wales) Regulations 2005 with amendments. Dangerous Goods regulations. The Safety Data Sheet is based on information provided by the producer.



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**16. Other information**

Information which has been added,  
deleted or revised:

New Safety data sheet.

Supplier's notes:

The information contained in this SDS must be made  
available to all those who handle the product.

Checking quality of information:

This SDS is quality controlled by National Institute of  
Technology in Norway, certified according to the  
Quality Management System requirements specified  
in ISO 9001:2008.

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