

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006
(amended by Regulation (EU) 2015/830)

Silicon carbide

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

1.1. Product identifier

Product name	Silicon carbide
CAS-No.	409-21-2
EC-No.	206-991-8
Product code	None.

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

Use of the Substance/Mixture	Mineral raw material
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1.3. Details of the supplier of the safety data sheet

Company/Undertaking Identification	Carlo Bernasconi AG Hohlstrasse 444 8048 Zürich Tel. 0848 38 80 00 Fax. 0848 38 80 01 info@carloag.ch
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1.4. Emergency telephone number	145 (Tox Info Suisse)
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Version	GHS 1
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 The substance or mixture is not classified.

In accordance with Regulation (EC) No. 1272/2008, the product does not need to be classified nor labelled.

Additional information For the full text of the phrases mentioned in this Section, see Section 16.

2.2. Label elements

Signal Word -

Hazard Statements None.

Precautionary statements None.

Supplemental information None.

Product identifier None.

2.3. Other hazards None known.

SECTION 3: Composition/information on ingredients

3.1. Substances

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Components		Product identifier
Silicon carbide	100%	CAS-No.: 409-21-2 EC-No.: 206-991-8

For the full text of the phrases mentioned in this Section, see Section 16.

Hazardous impurities None known.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move to fresh air. Consult a physician after significant exposure.
Skin contact	Remove contaminated clothing and shoes. Wash with water and soap as a precaution.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.
Ingestion	Rinse mouth. Do not induce vomiting. Consult a physician if necessary.

4.2. Most important symptoms and effects, both acute and delayed None known.

4.3. Indication of any immediate medical attention and special treatment needed None known.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use dry chemical, CO₂, water spray or alcohol foam.

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

5.2. Special hazards arising from the substance or mixture The product is not flammable.

5.3. Advice for firefighters

Special protective equipment for firefighters Standard procedure for chemical fires.

Specific methods No special measures required. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel

Avoid dust formation.

Advice for emergency responders

In the case of dust or aerosol formation use respirator with filter model P2.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up

Use mechanical handling equipment. Use approved industrial vacuum cleaner for removal.

6.4. Reference to other sections

See chapter 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Wash hands and exposed skin before eating, drinking or smoking and after work.

7.2. Conditions for safe storage, including any incompatibilities

Store at room temperature in the original container. Keep in a dry place.

7.3. Specific end use(s)

Consult the technical guidelines for the use of this substance/mixture.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit(s) No data is available on the product itself.

Silicon carbide (CAS 409-21-2)

United Kingdom - Workplace
Exposure Limits (WELs) - STELs

30 mg/m³ STEL (calculated
not whiskers, total inhalable)

12 mg/m³ STEL (calculated
not whiskers, respirable)

United Kingdom - Workplace
Exposure Limits (WELs) - TWAs

10 mg/m³ TWA (not whiskers, total inhalable)

4 mg/m³ TWA (not whiskers, respirable)

8.2. Exposure controls

Occupational exposure controls General industrial hygiene practice.

Personal protection equipment

Respiratory protection

No personal respiratory protective equipment normally required.
Respirator must be worn if exposed to dust.

Hand protection

Gloves made of latex. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature). Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Eye protection

Safety glasses.

Skin and body protection

No special measures required.

Thermal hazards

No special measures required.

Environmental exposure controls No special measures required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Powder. Crystalline.
Colour	Black.
Odour	Odourless.
Odour Threshold	Not determined.
pH:	not applicable
Melting point/range:	~ 2300 °C
Boiling point/range:	Not determined.
Flash point:	Not determined.
Evaporation Rate:	Not determined.
Flammability:	non-flammable
Explosion limits:	Not determined.
Vapour pressure:	Not determined.
Vapor density:	Not determined.
Relative density:	~ 3.2
Water solubility:	Not determined.
Partition coefficient (n-octanol/water):	Not determined.
Autoignition temperature:	Not determined.
Decomposition temperature:	Not determined.
Viscosity:	Not determined.
Explosive properties:	Not explosive
Oxidising properties:	None

9.2. Other information

Suitable solvents	insoluble
General Product Characteristics	Bulk density: 1'300 - 1'500 kg/m ³ .

SECTION 10: Stability and reactivity

10.1. Reactivity	No information available.
10.2. Chemical stability	Stable under recommended storage conditions.
10.3. Possibility of hazardous reactions	None known.
10.4. Conditions to avoid	Avoid dust accumulation in enclosed space.
10.5. Incompatible materials	None.
10.6. Hazardous decomposition products	No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	This product has no known adverse effect on human health.
Skin corrosion/irritation	May cause eye irritation with susceptible persons.
Serious eye damage/eye irritation	Product dust may be irritating to eyes, skin and respiratory system.
Respiratory / Skin Sensitisation	None.
Carcinogenicity	Carcinogenicity classification not possible from current data.
Germ cell mutagenicity	Classification not possible from current data.
Reproductive toxicity	Classification not possible from current data.
Specific target organ toxicity (single exposure)	No data available.
Specific target organ toxicity (repeated exposure)	No data available.
Aspiration hazard	No data available.
Human experience	No data available.

SECTION 12: Ecological information

12.1. Toxicity	This product has no known eco-toxicological effects.
12.2. Persistence and degradability	No information available.
12.3. Bioaccumulative potential	Bioaccumulation is unlikely.
12.4. Mobility in soil	No data available.
12.5. Results of PBT and vPvB assessment	No information available.
12.6. Other adverse effects	No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues / unused products

Dispose of wastes in an approved waste disposal facility. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. The following Waste Codes are only suggestions: European Waste catalogue code (EWC-code): 06 05 03.

Contaminated packaging

Offer rinsed packaging material to local recycling facilities.

SECTION 14: Transport information

ADR/RID

Not regulated.

IMDG

Not regulated.

IATA

Not regulated.

Further Information

Not classified as dangerous in the meaning of transport regulations.

SECTION 15: Regulatory information

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

Regulatory Information

In accordance with Regulation (EC) No. 1272/2008, the product does not need to be classified nor labelled.

Silicon carbide (CAS 409-21-2)

EU - Control of Exports of Dual Use Items (428/2009)

1C007.c.1.b

EU - REACH (1907/2006) - List of Registered Substances

Present

15.2. Chemical safety assessment

Not required.

SECTION 16: Other information

Key or legend to abbreviations and acronyms	CLP: Classification according to Regulation (EC) No. 1272/2008 (GHS)
Key literature references and sources for data	According to information supplied by the manufacturer.
Classification procedure	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
Full text of phrases referred to under sections 2 and 3	None.
Training advice	For further information, refer to the product technical data sheet.
Instructions for use	Restricted to professional users.
Disclaimer	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.