

Trade name: TIMROC Silicon Carbide
Version: 1.4.1 / GB

Status: 15.12.2010

1.) Identification of the substance/mixture and of the company/undertaking**Trade name****TIMROC Silicon Carbide****Product identifier**Substance name silicon-carbide
REACH registration no. 01-2119402892-42-0001**Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**Abrasive
Refractory**Details of the supplier of the safety data sheet****Address**TIMCAL AG
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CH-6743 Bodio (Switzerland)
Telephone no. +41 91 873 20 10
Fax no. +41 91 873 20 19**Information provided by / telephone**

Technological Development

Emergency telephone+41 91 873 20 10
Monday - friday: 7.30 - 12.00, 13.15 - 17.15 h**Advice on Safety Data Sheet**

sdb_info@umco.de

2.) Hazards identification**Classification of the substance or mixture****Classification information**

This product does not meet the classification and labelling criteria given in the Regulation (EC) No 1272/2008 (CLP).

3.) Composition / information on ingredients**Chemical characterization**

Silicon carbide (90 - 99 %)

Substance / product identificationCAS no. 409-21-2
EC no. 206-991-8
Molecular weight 40,10
Formula Si C**4.) First aid measures****General information**

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing.

After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air.

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After skin contact

Wash off immediately with soap and water.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.).

After ingestion

Rinse mouth thoroughly with water. Seek medical advice immediately. Never give anything by mouth to an unconscious person.

5.) Fire-fighting measures**Suitable extinguishing media**

Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas.

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

None known

Special protective equipment for fire-fighters

Use self-contained breathing apparatus. Wear protective clothing.

6.) Accidental release measures**Personal precautions**

Refer to protective measures listed in sections 7 and 8. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Avoid dust formation.

Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

Methods for cleaning up/taking up

Scoop-up mechanically. When picked up, treat material as prescribed under heading "Disposal considerations".

7.) Handling and storage**Handling****Advice on safe handling**

Provide good ventilation of working area (local exhaust ventilation, if necessary). If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn.

Advice on protection against fire and explosion

Avoid formation of dust. Keep away from sources of heat and ignition.

Storage**Requirements for storage rooms and vessels**

Containers which are opened must be carefully resealed and kept upright to prevent leakage. Always keep in containers of same material as the original one.

Advice on storage assembly

None known

Further information on storage conditions

Keep container tightly closed and dry.

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8.) Exposure controls / personal protection

**Exposure limit values
silicon-carbide**

CAS no. 409-21-2
EC no. 206-991-8

List of approved workplace exposure limits (WELs) / EH40

Silicon carbide (not whiskers)

total inhalable dust

TWA 10 mg/m³

List of approved workplace exposure limits (WELs) / EH40

Silicon carbide (not whiskers)

respirable dust

TWA 4 mg/m³

DUST

List of approved workplace exposure limits (WELs) / EH40

total inhalable dust

TWA 10 mg/m³

List of approved workplace exposure limits (WELs) / EH40

respirable dust

TWA 4 mg/m³

Exposure controls

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of dust formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified. Dust mask

Respirator FFP2SL (EN 149)

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective glove should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Eye protection

Safety glasses with side protection shield (EN 166)

Skin protection

Normal chemical work clothing.

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Avoid contact with eyes and skin. Remove soiled or soaked clothing immediately. Wash hands before breaks and after work. Do not inhale dust. Provide eye wash fountain in work area.

9.) Physical and chemical properties

General information

Form crystalline powder
Colour grey to green
Odour odourless

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Important health, safety and environmental information

Changes in physical state

Type	Decomposition temperature		
Value	appr.	2500	°C

Flash point

Remarks not applicable

Vapour pressure

Value	<	0,001	mbar
Reference temperature	20	°C	

Density

Value	3,20	- 3,22	g/cm ³
Reference temperature	20	°C	

Bulk density

Value	700	- 1700	kg/m ³
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Solubility in water

Value	<	0,001	g/l
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Other information

Impact sensitivity: not impact sensitive

10.) Stability and reactivity

Materials to avoid

None known.

Hazardous decomposition products

No hazardous decomposition products known.

11.) Toxicological information

Experience in practice

Contact with the skin and eyes may cause mechanical irritation. Inhalation of dusts may irritate the respiratory tract.

Other information (chapter 11.)

Product specific toxicological data are not known.

12.) Ecological information

Persistence and degradability

Biodegradability

Evaluation	not degradable
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Other information

Do not discharge product unmonitored into the environment.

13.) Disposal considerations

Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

