

1 Identification of substance

Product details:	
Trade name:	SIGRADUR [®] K, SIGRADUR [®] G
Manufacturer/Supplier:	HTW Hochtemperatur-Werkstoffe GmbH Gemeindewald 41 D-86672 Thierhaupten
	Tel.: +49-8271-818611 Fax: +49-8271-7372 Email: info@htw-germany.com
Information:	see: Chapter 16 (Contact)
Emergency information:	see: manufacturer/supplier

2 Composition / Data on components

Chemical characterization:	
CAS No. Designation:	None
Identification number(s):	void
Chemical characterization:	Glassy carbon >99.9% C

3 Hazards identification

Hazard designation:	void
Information pertaining to particular dangers for man and environment:	void

4 First aid measures

General information:	No special measures required.
After inhalation:	No special measures required.
After skin contact:	No special measures required.
After eye contact:	No special measures required.
After swallowing:	No special measures required.

5 Fire fighting measures

Suitable extinguishing agents	All methods of extinguishing are suitable
Special hazards caused by material, its products of combustion or resulting gases:	In case of fire carbon dioxide (CO ₂) and under certain conditions carbon monoxide (CO).
Additional Information:	No information

6 Accidental release measures

Person-related safety precautions:	No special measures required
Measures of environmental protection:	No special measures required

Measures of cleaning/collecting: Collect mechanically.
Dispose of contaminated material as waste according to item 13

7 Handling and storage

Information for safe handling: Ensure good ventilation/exhaustion at the workplace
Prevent formation of dust.

Information about protection against explosives and fires: Refined dust can combine with air to form an explosive mixture.

Requirements to be met by storerooms and containers: No special measures required

Information about storage in one common storage facility: No special measures required

Further information about storage conditions: No information

8 Exposure controls and personal protection

Additional information about design of technical systems: No further data; see item 7

Breathing equipment: At work with refined dust put on respirator.
Not necessary if the room is well-ventilated.

Protection of hands: At work with splintered material use protective gloves

Protection of eyes: At work with splintered material put on tightly sealed safety glasses.

Protection of body: Protective work clothing.

9 Physical and chemical properties

Form: Solid
Colour: Black
Odour: Odourless

Change in conditions: Solid-gaseous over 3300°C

Melting point / melting range: -

Boiling point / Boiling range: -

Flash point: Over 600°C on air start to built CO₂, under certain conditions CO.

Danger of explosion: Refined dust causes risk of dust explosion.

Density: 1.45 g/cm³

Solubility in /Miscibility with water: Insoluble

10 Stability and reactivity

Thermal decomposition / conditions to be avoided: -

Dangerous reactions: Enrichment with refined dust causes risk of dust explosion

Dangerous products of decomposition: CO₂ from 600°C in air
CO from 1000°C in air

11 Toxicological information

Acute toxicity: Non-poisonous, biological compatible
Primary irritant effect on the skin: No irritant effect.
Primary irritant effect on the eye: No irritant effect.
Other information: No information
Additional toxicological information: No information

12 Ecological information

General notes: Absolutely inert

13 Disposal considerations

Recommendation: Remove according to local authority recommendations.
Uncleaned packaging: Empty contaminated packaging thoroughly. They can be recycled after thorough and proper cleaning. Dispose of packaging according to regulations

14 Transport information

Land transport ADR/RID (cross-border)
ADR/RID Class: -
Substance Index Number: -
Transport/Additional information: No dangerous good according to international transport regulations.

15 Regulatory information

Designation according to EC guidelines: The product is not subject to identification regulations under EC. Directives and Ordinance on Hazardous Materials (GefStoffV). Observe the normal safety regulations when handling chemicals.

16 Other information

This data is based on our present knowledge. However, it shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Contact: Dr. Rainer Dübgen
r.duebgen@htw-germany.com