

Trade name: ®SIGRAFLEX COMPACT

printed: 07.09.2007

revised: 27.08.2007

1. Identification of the substance/preparation and company

Product details:

Trade name:

®SIGRAFLEX COMPACT

Application: Material for gaskets.

Producer / supplier details:

Producer/supplier:

SGL TECHNOLOGIES GmbH

Werner-von-Siemens-Str. 18

Phone: +49-8271-83-0

D-86405 Meitingen

Fax: +49-8271-83-2127

Information providing division:

SGL TECHNOLOGIES GmbH - Meitingen plant

Werner-von-Siemens-Str. 18 D-86405 Meitingen

Phone: ++49-8271-83-2276

Fax: ++49-8271-83-2419

E-mail/MSDS: hubert.malik@sglcarbon.de

Information in case of emergency:

SGL TECHNOLOGIES GmbH - Meitingen plant

Phone: ++49-8271-83-1200

Fax: ++49-8271-83-2466

2. Possible Hazards

Information on particular hazards to human and environment:

None.

3. Composition/information on ingredients

Chemical characteristics:

Product/material based on graphite coated on both sides with aluminium sheet.

Hazardous ingredients:

No ingredients classified hazardous acc. to 67/548/EEC.

Additional information:

None.

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4. First aid measures

General information:

None.

On inhalation:

After inhalation of greater quantities of dust, take affected person to fresh air (if dust occurs during machining).

On contact with skin:

Wash skin with water and soap after work.

On contact with the eyes:

Rinse with plenty of water.

If swallowed:

Drink water.

Particular advices for the physician:

None.

5. Fire-fighting measures

Suitable extinguishing media:

Foam, sand, carbon dioxide, dry powder, water spray jet.

Unsuitable extinguishing media, for safety reasons:

Direct water spray jet.

Particular risks arising from the substance, its preparation, its products of combustion or formed gases:

Dust may glow in oxygen-containing atmosphere above 350°C. During glowing and in case of fire CO/CO₂ is generated.

Special protection equipment needed for fire-fighting:

None, in case of insufficient ventilation use respiration equipment (against CO/CO₂).

6. Measures in case of accidental release

Personal precautions:

If dust occurs during machining use protective mask (P1).

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6. Measures in case of accidental release (continued)

Environmental precautions:

None.

Methods for cleaning/removal:

Remove mechanically.

Additional information:

None.

7. Handling and storage

Handling:

Advice on safe handling:

None.

Advice on protection against fire and explosion:

None, if handled properly.

Storage:

Requirements on storage areas and tanks:

None.

Advice on storage assembly:

None.

Additional information on storage conditions:

None.

Storage class:

Not classified.

8. Exposure limitations and personal protection equipment

Measure for limitation and monitoring the exposure:

During machining and dust occurrence take care for good ventilation resp. for suction of the area of activity.

Additional advice on the design of technical equipment:

None.

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8. Exposure limitations and personal protection equipment (cont.)

Ingredients with occupational exposure limits to be monitored:

| CAS-No. | Name of substance | Type | Value | Unit |
|-------------|----------------------|---------------|-------|-------------------|
| 007782-42-5 | graphite (fine dust) | inhalable AGW | 10 | mg/m ³ |
| | | alveolic AGW | 3 | mg/m ³ |

Additional advices:

None.

Personal protective equipment:

General protective and hygiene measures:

None.

Respiratory protection:

Dust protective mask (P1), if dust occurs.

Hand protection:

Protective leather gloves.

Eye protection:

Safety glasses, if dust occurs during machining.

Body protection:

None.

9. Physical and chemical properties

Appearance:

Form: solid
Colour: grey/black reflectant
Odour: none

Data relevant to safety:

| Parameter | Value/range | Unit | method |
|--------------------------------------|--------------|------|--------|
| Softening point: | inapplicable | | |
| Boiling point/range: | inapplicable | | |
| Melting point/range of the metal: | appr. 660 | °C | |
| Flash point: | inapplicable | | |
| Ignitability: | inapplicable | | |

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9. Physical and chemical properties (continued)

Data relevant to safety:

| Parameter | Value/range | Unit | method |
|-------------------------|--------------|-----------------|-------------------|
| Ignition temperature: | inapplicable | | |
| Self ignitability: | none | | |
| Inflammable properties: | none | | |
| Explosive risk: | none | | |
| Explosion limits | upper: | inapplicable | |
| | lower: | inapplicable | |
| Vapour pressure | at 20°C: | inapplicable | |
| Density | at 20°C: | appr. 0.1-1.3 | g/cm ³ |
| Solubility | at 20°C: | none (in water) | |
| pH-value: | | 4.5 - 7 | |
| Partition coefficient: | | inapplicable | |
| n-octanol/water | | | |
| Viscosity: | | inapplicable | |
| Additional information: | none | | |

Remarks:

10. Stability and reactivity

Conditions to be avoided:

None.

Contact with substances to be avoided:

None.

Hazardous decomposition products:

None, if handled in accordance with description.

Additional information:

Thermal degradation of the adhesive layer above 150°C.

11. Toxicological information

No toxicological data available.

12. Ecological information

The polymere constituent is insoluble in water.

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13. Disposal consideration

Product/preparation:

Disposal in accordance with EC directive 91/692/EEC.

Contaminated packing material:

Disposal in accordance with EC directive 91/692/EEC.

14. Transport information

No hazardous material as defined by the transport regulations.

15. Regulatory informations

Labelling according to EC regulations:

Code-letter and hazard-symbol for the product:

No subject to mandatory marking.

Hazardous ingredient(s) relevant for labelling:

None.

R-phrases: None.

S-phrases: None.

Safety assessement:

Safety assessements for substances in this preparation have not been performed.

National regulations:

Additional classification acc. to GefStoffV (D) Appendix II:

None.

Regulations for handling restrictions:

None.

Hazardous industries directive:

None.

Classification acc. to BetrSichV (D):

None.

Technical guideline "TA-Luft" (D):

Not applicable.

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15. Regulatory information (continued)

Hazard classification for water (D):

Not dangerous for water. VwVwS annex 1, art.-No. 801.

Other regulations, restrictions and prohibition regulations:

None.

16. Other information

Other information:

None.

Safety data sheet providing division:

Meitingen plant / Safety & occ. health division

Person to contact:

Dr. R. Meyer zu Reckendorf Phone: ++49-8271-83-1512

This information is based on our present state of knowledge and is intended to describe our products in respect of safety requirements. It should therefore not be regarded as guaranteeing specific properties of the products described or their suitability for particular applications. This information does not form part of any contractual agreement in law.