

# Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006

Trade Name: SIGRAFLEX® UNIVERSAL

Revised: 11-3-2018

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## 1. Identification of the Substance / Mixture and of the Company / Undertaking

### Product Details

**Trade Name** : Sigraflex® Universal  
**Other Names** : Tanged 316 S/Steel Graphite Laminate; Tanged Graphite;  
Graphite Laminate with Tanged 316 S/Steel Insert  
**Application** : Material for Gaskets

### **Distributor**

Associated Gaskets Pty Ltd  
68 Marigold Street,  
Revesby, NSW 2212,  
Australia  
Phone : 61 (0)2 9774 - 3333  
Fax : 61 (0)2 9774 - 1100

### **Manufacturer**

SGL Carbon GmbH  
Werner-von-Siemens-Str. 18  
D-86405 Meitingen  
Germany  
Phone : +49-8271-83-0  
Fax : +49-8271-83-2466

### **Responsible Department in SGL Carbon, Meitingen**

Abteilung Arbeitssicherheit & Umweltschutz (EHS)  
Telephone : +49 (0)8271-83-1512  
Emergency Telephone : +49 (0)8271-83-1200

**Poisons Information Centre: 13 1126 from anywhere in Australia, (0800 764 766 in New Zealand)**

## 2. Hazards Identification

### Label Elements

**Other Hazards** : Cut wounds are possible by stainless steel foil.

## 3. Composition / Information on Ingredients

### Mixtures

#### **Chemical Characterisation**

Article based on expanded graphite, stainless steel foils and furan resin impregnation.

#### **REACH Article 33 (SVHC)**

This Product contains no chemical substance that is listed in Article 59 (1, 10) of Regulation (EC) No. 1907/2006.

## 4. First Aid Measures

**General Information** : None  
**After Inhalation** : Provide fresh air  
**After Contact with Skin** : Gently wash skin with plenty of soap and water  
**After Contact with Eyes** : Rinse cautiously with water for several minutes  
**After Ingestion** : Rinse mouth immediately and drink large quantities of water

#### **Indication of any Immediate Medical Attention and special Treatment Needed**

None

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## 5. Fire Fighting Measures

**Suitable Extinguishing Media:** Foam, Carbon Dioxide (CO<sub>2</sub>), Dry Powder, Water Spray

**Unsuitable Extinguishing Media, for Safety Reasons:** High power water jet.

**Special Hazards arising from the Substance or Mixture:**

Carbon Monoxide (CO), Carbon Dioxide (CO<sub>2</sub>), and Sulphur Dioxide (SO<sub>2</sub>) can be released in the event of a fire.

Solid material fires, mainly of organic nature, that normally burn with formation of embers.

**Advice for Fire Fighters:**

In case of insufficient ventilation, wear suitable respiratory equipment

## 6. Accidental Release Measures

**Personal Precautions, Protective Equipment and Emergency Procedures**

Avoid generation of dust. Wear personal protection equipment.

**Environmental Precautions** : None.

**Methods and Material for Containment and Cleaning Up:** Collect mechanically.

**Reference to other Sections** : None

## 7. Handling and Storage

**Precautions for Safe Handling**

**Advice on Safe Handling:** None.

**Advice on Protection against Fire and Explosion:**

Dust should be vacuumed up immediately at the place it occurs

**Further Information on Handling:** None

**Conditions for Safe Storage, including any Incompatibilities**

**Requirements for Storage Rooms and Vessels:** None.

**Advice on Storage Compatibility:** None.

**Further Information on Storage Conditions:** None.

## 8. Exposure Controls / Personal Protection

**Control Parameters**

**Exposure Controls**

**Occupational Exposure Controls** : None

**Protective and Hygiene Measures** : None

**Respiratory Protection** : Dust protective mask if dust is generated

**Hand Protection** : Chromate free leather gloves. Wear cotton under mitten if possible. Literature information: 197

**Eye Protection** : Safety glasses, if dust occurs during machining

**Skin Protection** : None

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## 9. Physical and Chemical Properties

### Appearance

**Form:** Solid                      **Colour :** Grey/Black                      **Odour:** None

<u>Parameter</u>	<u>Value/Range</u>	<u>Parameter</u>	<u>Value/Range</u>
Softening Point	: N/A	Boiling Point/Range	: N/A
Flash Point	: N/A	Ignitability	: N/A
Explosive Risk	: none	Auto Ignition Temperature	: N/A
pH-value	: 4.5 - 7	Flammability	: Non flammable
Viscosity	: N/A	Upper Explosion Limit	: N/A
Partition Coefficient	: N/A	Lower Explosion Limit	: N/A
Vapour Pressure at 20°C:	N/A	Sublimation Point	: N/A
Melting Point/Range	: appr. 1420°C for the tanged metal insert		

**Additional Information:** None

N/A: Not Applicable

## 10. Stability and Reactivity

**Conditions to Avoid** : None

**Incompatible Materials** : None

**Hazardous Decomposition Products:** None

**Additional Information** : At temperatures above 250°C the resin impregnation carbonises

## 11. Toxicological Information

### Information on Toxicological Effects

#### Toxicokinetics, Metabolism and Distribution

Based on existing data the substance does not fulfil the criteria of CMR-substances Cat. 1 and 2 according 67/548/EEC.

#### Acute Toxicity

##### **Graphite**

Acute Toxicity, Oral	: LD50: > 2000 mg/kg bw/day	Method: Rat. (OECD 423)
Acute Toxicity, Dermal	: Not an irritant.	Method: Rabbit. (OECD 404)
Acute Toxicity, Inhalant	: LD50: (4h) > 2000 mg/m <sup>3</sup> Air.	Method: Rat. (OECD 403)

#### Carcinogenic/Mutagenic/Toxic Effects for Reproduction

##### **Graphite**

NOAEL: 813 mg/kg bw/day (Reproductive toxicity)

Result: No signs of systemic toxicity were observed, no signs of any effects on development, reproduction, or fertility. NOAEL based on nominal food intake = 1000 mg/kg bw/day

## 12. Ecological Information

**Toxicity:** No data available

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## 13. Disposal Considerations

### Waste Treatment Methods

#### **Advice on Disposal**

According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

#### **Contaminated packaging**

According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

## 14. Transport Information

### Land Transport (ADR/RID)

**UN Proper Shipping Name:** Not a hazardous material

### Inland Waterways Transport

**UN Proper Shipping Name:** Not a hazardous material

### Marine Transport

**UN Proper Shipping Name:** Not a hazardous material

### Air Transport

**UN Proper Shipping Name:** Not a hazardous material

## 15. Regulatory Information

### Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

### National Regulatory Information

**Water contaminating class (D):** Not water contaminating

### Chemical Safety Assessment

For this substance a chemical safety assessment has been carried out.

## 16. Other Information

### Acronyms

ADR	:	The European Agreement concerning the International Carriage of Dangerous Goods by Road
BW	:	Body Weight
CMR	:	Carcinogenic, Mutagenic or Toxic for Reproduction. A classification system in accordance with EU Directive 67/548/EEC
EAKV	:	Europäischer Abfallkatalog Verordnung (Refer to EWC)
EWC	:	European Waste Catalogue. The EWC is a hierarchical list of waste descriptions established by EU Commission Decision 2000/532/EC
LD	:	Lethal Dosis
NOAEL	:	No Observed Adverse Effect Level
OECD	:	The Organisation for Economic Co-operation and Development
REACH	:	Registration, Evaluation, Authorisation and Restrictions of Chemicals (EU)
RID	:	Regulation concerning the International Carriage of Dangerous Goods by Rail (EU)
SVHC	:	Substances of Very High Concern (EU)
UN	:	United Nations

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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**END**