

# Flexitallic Ltd

## MATERIAL SAFETY DATA SHEET

PRODUCT SAFETY DATA SHEET FOR: Sigma 511

Page 1 of 5

ISSUE DATE: 22/11/2010

Issue Number 1

### 1: IDENTIFICATION OF THE SUBSTANCE / PREPARATION & THE COMPANY

**1.1 Chemical Identification** Sigma 511

**1.2 Application** A filled P.T.F.E gasket material intended for use as a sealing material between flanges, can be in the form of sheets or cut gaskets.

**1.3 Company Identification**

Flexitallic Ltd  
Hunsworth Lane  
Cleckheaton  
West Yorkshire  
BD19 4LN

Telephone No: 01274 851273  
Fax No: 01274 300303  
E-Mail: [enquiries@flexitallic.eu](mailto:enquiries@flexitallic.eu)

### 2: COMPOSITION / INFORMATION ON INGREDIENTS

**2.1 Chemical Description**

Superior performance biaxially orientated P.T.F.E sheet material with a silica filler.

<b>2.2 Hazardous Ingredients</b>	<b>Cas No</b>	<b>Wt %</b>	<b>R Phrases</b>
----------------------------------	---------------	-------------	------------------

### 3: HAZARD IDENTIFICATION

Do not inhale high temperature thermal decomposition products. Do not smoke in presence of P.T.F.E, contamination of tobacco products must be avoided.

### 4: FIRST AID MEASURES

**4.1 Eye Contact** Wash eye with water.

**4.2 Skin Contact** No known hazard in general use.

**4.3 Ingestion** Unlikely to occur in general use.

**4.4 Inhalation** In the product as supplied no significant health hazard.

The logo for Flexitallic, featuring the word "Flexitallic" in a stylized, blue, cursive font with a registered trademark symbol.

**5: FIRE FIGHTING MEASURES**

**5.1 Extinguishing Media** Water, Carbon dioxide, Dry powder, Foam.

**5.2 Fire and Explosion Hazards**  
Low fire hazard. However, combustion or thermal decomposition will evolve toxic and corrosive vapours.

**5.3 Protection Measures**  
In the event of a fire, wear a self contained breathing apparatus and a complete suit protecting against chemicals. Wear neoprene gloves when handling refuse from fire.

**6: ACCIDENTAL RELEASE MEASURES**

**6.1 Personal Precautions**  
Recommendations given in section 8.

**6.2 Environmental Precautions**  
Waste disposal, see section 13.

**6.3 Cleaning Up**  
Remove any dust generated by vacuum or damp cloth.

**7: STORAGE AND HANDLING**

**7.1 Storage**  
Cool, dry conditions away from direct sunlight and electrical discharge.

**7.2 Recommended Shelf Life**  
Indefinite if stored correctly.

**7.3 Handling**  
Wear gloves.

**8: EXPOSURE CONTROL / PERSONAL PROTECTION**

**8.1 Occupational Exposure Limits**

**8.2 Engineering Measures**  
Recommend local exhaust ventilation when cutting, grinding machining or drilling operations involved.

**8.3 Personal Protective Equipment**  
**Respiratory Protection**  
Use suitable respirator if dust exposure limits are exceeded during cutting, grinding or drilling.  
**Hand Protection**  
Wear cotton or rubber gloves.  
**Eye Protection**  
Use approved eye protection when machining.  
**Skin Protection**  
Wear overalls.



**9: PHYSICAL / CHEMICAL PROPERTIES**

<b>9.1</b>	<b>Appearance</b>	Pink coloured sheet or gasket.
<b>9.2</b>	<b>Odour</b>	Not applicable.
<b>9.3</b>	<b>PH</b>	Not applicable.
<b>9.4</b>	<b>Boiling Point</b>	Not applicable.
<b>9.5</b>	<b>Melting Point</b>	327-342 Deg C.
<b>9.6</b>	<b>Flash Point</b>	Not applicable.
<b>9.7</b>	<b>Decomposition Temperature</b>	> 300oC (degrees)
<b>9.8</b>	<b>Explosive Properties</b>	Not applicable.
<b>9.9</b>	<b>Vapour Pressure</b>	Not applicable.
<b>9.10</b>	<b>Relative Density</b>	2.2 g/cc
<b>9.11</b>	<b>Solubility</b>	Insoluble in water.

**10: STABILITY AND REACTIVITY**

<b>10.1</b>	<b>Stability</b>	Stable under recommended storage conditions.
<b>10.2</b>	<b>Conditions to Avoid</b>	Temperatures above 300 Deg C.
<b>10.3</b>	<b>Materials to Avoid</b>	Aluminium powder, strong oxidising agents and alkali metals.
<b>10.4</b>	<b>Hazardous Decomposition Products</b>	Hydrogen fluoride, carbonyl fluoride and fluorinated olefines.

**11: TOXICOLOGICAL INFORMATION**

<b>11.1</b>	<b>Short Term Effects</b>	
	<b>Eye Contact</b>	May cause irritation.
	<b>Skin Contact</b>	No effect.
	<b>Ingestion</b>	No effect.

*Flexitallic*<sup>®</sup>

**11.1 Inhalation** High temperature thermal decomposition products may cause polymer fume fever with flu-like symptoms, symptoms usually occur after 2 hours and decline within the next 36 to 48 hours. No persistent or cumulative effects have been observed.

**11.2 Chronic Effects**

**12: ECOLOGICAL INFORMATION**

**12.1 LC50** Not applicable.

**12.2 COD** Not applicable.

**12.3 BOD** Not applicable.

**12.4 Other** Not applicable.

**13: DISPOSAL CONSIDERATIONS**

Bury on authorised landfill site or incinerate under approved controlled conditions. This product May be incinerated above 800 Deg C using a scrubber to remove Hydrogen Fluoride. Disposal Should be in accordance with local, state or national legislation.

**14: TRANSPORT INFORMATION**

**14.1 Packaging**  
Pack to prevent damage and liberation of any dust.

**14.2 Freight Classifications** Not classified as dangerous goods.

**ADR Number** Not applicable.

**IMDG Code** Not applicable.

**Packing Group** Not applicable.

**Trem Card** Not applicable.

**UN Number** Not applicable.

**15: REGULATORY INFORMATION**

**15.1 CPL Classification** Not applicable.

**Hazard Pictogram** Not applicable.

*Flexitallic®*

**15.1 Risk Phrases** Not applicable.

**Safety Phrases** S21, S23, S41.

**NOTE: This Data Sheet does not constitute a users assessment of workplace risk as required by HSW act, COSHH, Management of Health and Safety at Work regulations or other Health and Safety legislation.**

**16: OTHER INFORMATION**

**Text of any Risk Phrases/Safety Phrases listed in 15.1**

**S22** Do not breathe dust.

**S35** This material and its container must be disposed of in a safe way.

**S37** Wear suitable gloves.

**Significant Contents:**

Polytetrafluorethylene (PTFE)

Silica

Red Oxide (Pigment)

**Further information and relevant advice can be found in:-**

**Health and Safety at Work Act 1974**

**The Control of Substances Hazardous to Health Regulations 1988**

**NOTE: The information contained in this Safety Data Sheet is based on the present state of knowledge and current national legislation.**

**It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.**

*Flexitallic®*