1: IDENTIFICATION OF THE SUBSTANCE / PREPARATION & THE COMPANY

1.1 Chemical Identification
Sigma 500

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

2: COMPOSITION / INFORMATION ON INGREDIENTS

2.1 Chemical Description
Superior performance biaxially orientated P.T.F.E sheet material with glass microspheres.

2.2 Hazardous Ingredients

<table>
<thead>
<tr>
<th>Cas No</th>
<th>Wt %</th>
<th>R Phrases</th>
</tr>
</thead>
</table>

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.
## 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

9.1 Appearance  Blue coloured sheet or gasket.

9.2 Odour  Not applicable.

9.3 PH  Not applicable.

9.4 Boiling Point  Not applicable.

9.5 Melting Point  327 – 342 Deg C.

9.6 Flash Point  Not applicable.

9.7 Decomposition Temperature  > 300 Deg C

9.8 Explosive Properties  Not applicable.

9.9 Vapour Pressure  Not applicable.

9.10 Relative Density  1.4 g/cc

9.11 Solubility  Insoluble in water.

10: STABILITY AND REACTIVITY

10.1 Stability  Stable under recommended storage conditions.

10.2 Conditions to Avoid  Temperatures above 300 Deg C.

10.3 Materials to Avoid  Aluminium powder, strong oxidising agents and alkali metals.

10.4 Hazardous Decomposition Products  Hydrogen fluoride, carbonyl fluoride and fluorinated olefines.

11: TOXICOLOGICAL INFORMATION

11.1 Short Term Effects
Eye Contact  May cause irritation.
Skin Contact  No effect.
Ingestion  No effect.
### 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

<table>
<thead>
<tr>
<th>12.1 LC50</th>
<th>Not applicable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.2 COD</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>12.3 BOD</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>12.4 Other</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

### 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

<table>
<thead>
<tr>
<th>14.1 Packaging</th>
<th>Pack to prevent damage and liberation of any dust.</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.2 Freight Classifications</td>
<td>Not classified as dangerous goods.</td>
</tr>
<tr>
<td>ADR Number</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>IMDG Code</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Packing Group</td>
<td>Not applicable.</td>
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<td>Trem Card</td>
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<tr>
<td>UN Number</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

### 15: REGULATORY INFORMATION

<table>
<thead>
<tr>
<th>15.1 CPL Classification</th>
<th>Not applicable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard Pictogram</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>
### 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
- Glass Microspheres
- Ultramarine Blue

**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.