

## Safety Data Sheet

### 1.0 Product Identifier

Material Name – Spiral Wound Gasket (please see appendix I for the range of products covered by this Safety Data Sheet.

REACH Registration number – not applicable

1.2 Relevant uses – Flange sealing

1.3 – Details of the supplier –

Flexitallic UK Ltd, Scandinavia Mill, Hunsworth Lane, Cleckheaton,  
West Yorkshire, BD19 4LN  
Phone number – 01274 851273  
Emergency e-mail – [enquiries@flexitallic.eu](mailto:enquiries@flexitallic.eu)

1.4 Emergency telephone number - 01274 851273

### 2.0 Hazard identification

2.1 Classification of items within the product.

Although several of the constituent parts used in the manufacture of spiral wound gaskets may be hazardous in the raw state, the manufacturing process results in a solid infusible form, binding or otherwise rendering them inert. Although these constituent parts do not come within the scope of the REACH regulations they are identified in the table below for information purposes only. Fumes and dust from these constituent parts can be released by overheating, machining or abrading the product.

Constituent Part	CAS Number	%	Exposure Limit US	Other Exposure Limits
Nickel	7440-02-0	<10	1 mg/m <sup>3</sup>	0.5 mg/m <sup>3</sup>
Chromium	7440-47-3	<15	0.5 mg/m <sup>3</sup>	0.5 mg/m <sup>3</sup>
Molybdenum	7439-98-7	<3	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Silica (Quartz)	14808-60-7	<2	0.1 mg/m <sup>3</sup> (respirable)	0.1 mg/m <sup>3</sup>
Graphite	7782-4205	<95	2.5 mg/m <sup>3</sup> (respirable)	10 mg/m <sup>3</sup>

2.2 Label Elements - not applicable to these products.

2.3 Other hazard information: – although substances used in the manufacture of this sheet material can, prior to production, present hazards from ingestion etc. – when contained within this finished product they do not present a hazard in any form nor can they be released.

### **3.0 Information on ingredients.**

3.1 Ingredients within the mix used to produce this sheet are listed in section 2.1 of this document.

3.2 Mixtures – not applicable to this material.

### **4.0 First aid measures**

#### **4.1 Description of first aid measures**

General information: – the materials used to produce this product do not present any risk to the user in its encapsulated form. However when cutting operations are being carried out there is a low probability of dust or fume release.

In accordance with best practise the work should be carried out in a well-ventilated area or an engineering solution provided (Local Exhaust Ventilation – LEV). However if this is not possible then respiratory protection can be used.

Skin contact – always wash well after handling these products.

Eye contact – flush the eye(s) with clean water.

Ingestion – highly improbable.

4.2 Symptoms – some mild skin irritation can occur.

4.3 Indications of immediate medical attention being required – none.

### **5.0 Fire Fighting measures –**

General – the material will burn with difficulty in a sustained fire situation but will tend to self-extinguish when the source of ignition is removed.

#### **5.1 Extinguishing media: – Water or foam.**

Dry chemical powder and carbon dioxide may also be used. In view of the comments in ‘general’ the source of the fire should be dealt with in accordance with requirements and the material will then self-extinguish.

5.2 Special hazards arising from the material- very low level of irritant fumes and toxic gases.

5.3 Advise to fire fighters:-none.

## 6.0 Accidental release measures

- 6.1 Personal precautions etc. - none.
- 6.2 Environmental precautions – none.

## 7.0 Handling and storage

- 7.1 Gloves should be worn when handling these materials.
- 7.2 Conditions for safe storage- none.
- 7.3 Specific end uses - refer to appropriate technical data sheet.

## 8.0 Exposure controls/personal protection

Not applicable to these products.

## 9.0 Physical Properties.

- Physical state – solid.
- Colour and appearance - NA
- Odour threshold – NA
- Vapour pressure – NA
- Vapour density – NA
- Evaporation rate – NA
- Boiling point – NA
- Freezing point – NA
- pH – NA
- Specific gravity – NA
- Coeff. Water/Oil Dist. – NA

## 10.0 Stability and reactivity

- 10.1 Reactivity – NA
- 10.2 Chemical stability – NA
- 10.3 Possibility of hazardous reactions – NA
- 10.4 Conditions to avoid – NA
- 10.5 Incompatible materials – NA
- 10.6 Hazardous decomposition products - NA

## 11.0 Toxicological Information.

Not applicable to these products

**12.0 Ecological Information**

- 12.1 Toxicity – NA
- 12.2 Persistence and degradability – NA
- 12.3 Bio accumulative potential – NA
- 12.4 Mobility in soil – NA
- 12.5 Results of PBT and vPvB assessment - N.A.
- 12.6 Other adverse effects – NA

**13.0 Disposal considerations**

- 13.1 All waste should be disposed of in accordance with the requirements of local regulations. Consideration should also be given to the potential for re-cycling or, if possible, by environmentally friendly routes. These could include re-cycling or the use of waste in Refuse Derived Fuel plants.

**14.0 Transport considerations**

No special requirements

**15.0 Regulatory information**

- 15.1 Safety, Health and Environmental regulations – NA
- 15.2 Chemical safety assessment – NA

**16.0 Other information**

**Date This Document Was Created – Aug 2014**

**Date of issue – Sep 2014**

**Brief description of changes since the last version –**

Development of the extended safety data sheet REACH annex II revision.

**List of abbreviations –** vPvB – very Persistent very Bioaccumulative

**Issuing authority -** Flexitallic Technical Engineering Department



## Appendix 1

Style	Construction	Filler Materials
Carrier Ring	Solid metal ring designed to accommodate a spiral wound gasket.	See below
Style R	Sealing element of a spiral wound gasket only	Thermiculite 735 & 835, Flexicarb, P.T.F.E.; Flexite Super and Ceramic
Baker Gasket	Spiral wound gasket designed for use with hydrofluoric acid	NA
HX-RIR	Designed for heat exchangers use with a solid inner ring	Inner ring material is typically Thermiculite
LS	Low stress version of spiral wound	Thermiculite 735 & 835, Flexicarb, P.T.F.E.; Flexite Super and Ceramic
CG		Thermiculite 735 & 835, Flexicarb, P.T.F.E.; Flexite Super and Ceramic
CGI & CGI MG		Thermiculite 735 & 835, Flexicarb, P.T.F.E.; Flexite Super and Ceramic
LSI - LS	Low stress gasket	P.T.F.E. only

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