

# FLEXITALLIC L.P.

## Material Safety Data Sheet

No. FDP-013

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Contact Number 281-604-2400

### GENERAL INFORMATION

**Manufacturer:**

Flexitallic Limited

Lancashire Mill, Hunsworth Lane

Cleckheaton England BD19 4LN

**Common Name, Trade Name, or Specification:**

**SF 1600 - Sheet Gasket Material**

DOT Hazard Code - N/A

### 1. HAZARDOUS INGREDIENTS AND EXPOSURE LIMITS

Although several of the ingredients used to formulate this product may be hazardous in the raw state, the manufacturing process results in a solid, infusible form, binding or otherwise rendering the mixture inert. We have identified below those hazardous constituents present in quantities greater than 1% (0.1% for carcinogens) that may be released from the product by overheating, burning, machining, abrading, or riveting.

Component	CAS Number	%	OSHA PEL	ACGIH TLV
Rubber	None	<15	N/A	N/A
Barium Sulfate	7727-43-7	<25	10 mg/m <sup>3</sup> (total dust)	10 mg/m <sup>3</sup> (total dust)
Calcium Carbonate	1317-65-3	<45	15 mg/m <sup>3</sup> (total dust)	10 mg/m <sup>3</sup>
Iron Oxide Dust	130-37-1	<10	10 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>
Fibrous Glass	NONE	<5	15 mg/m <sup>3</sup> (total dust)*	10 mg/m <sup>3</sup>

\* The formulation for this product is made with continuous filament fibrous glass. If the end product is finely ground, a fibrous glass dust may result which has a proposed OSHA PEL of 1 f/cc and a NIOSH REL of 3 f/cc.

### 2. PHYSICAL AND CHEMICAL CHARACTERISTICS

Melting Point - None

Solubility in water - Insoluble

Odor -Rubber

Color - Red Sheet Material

Specific Gravity - 1.5 - 2.0

Form - Solid

### 3. FIRE AND EXPLOSION DATA

Auto-ignition Temperature: This product is inherently flame resistant.

Flammable Limits in Air: % in Air by Volume: LEL: N/A UEL: N/A

Extinguisher Media: Carbon dioxide, chemical, or foam

Special Firefighting Procedure: Material in or near fires should be cooled with a water spray or fog. A self-contained breathing apparatus, operating in the positive pressure mode, and full fire fighting protective clothing should be worn for combative fires.

Unusual Fire and Explosion Hazards: Thermal decomposition or combustion may produce dense smoke, oxides of carbon, and low molecular weight organic compounds whose composition has not been characterized.

#### 4. PHYSICAL HAZARDS AND REACTIVITY DATA

Stability: Stable at normal temperatures and storage conditions

Incompatibility: None

Hazardous Decomposition Products: None

Hazardous Polymerization: Will not polymerize. This product is fully cured in the manufacturing process.

#### 5. HEALTH HAZARDS

Carcinogenicity:	NTP Listed	IARC Listed	NIOSH Listed	OSHA Listed
Rubber	No	No	No	No
Barium Sulfate	No	No	No	No
Calcium Carbonate	Yes	Yes**	Yes	No
Iron Oxide	No	No	No	No
Fibrous Glass	No**	No**	No	No

\* IARC classifies "continuous filament glass dust" as "not classifiable with respect to human carcinogenicity." (Group 3)  
IARC and NTP classify "fibrous glass dust" as "possible carcinogenic to humans." (Group 2B)

#### Symptoms and Effects of Exposure to the Individual Components:

##### RUBBER (POWDERED)

Inhalation hazards - May cause mild irritation of respiratory tract. Repeated and prolonged inhalation of dust may lead to a benign pneumoconiosis. This condition may cause some lung function impairment but is reversible with reduced exposure.

Other hazards - Eyes - may cause mild transient eye irritation.

##### BARIUM SULFATE

Inhalation hazards - Should be treated as a nuisance dust. Exposure to Barium Sulfate may cause paroxysmal coughing, wheezing, difficult breathing and upper respiratory tract irritation.  
Other hazards - No adverse effects have been reported from ingestion. Eye contact may cause temporary discomfort and irritation.

#### **CALCIUM CARBONATE**

This substance is a severe eye irritant and moderate skin irritant. Calcium carbonate is a common air contaminant

#### **IRON OXIDE DUST**

Inhalation hazards - Repeated or prolonged exposures to iron oxide dust may cause a form of benign pneumoconiosis called siderosis. Exposure is generally not associated with pulmonary fibrosis or disability unless there is concurrent exposure to other fibrosis-producing materials such as silica.  
Other hazards - Contact may cause skin and eye irritation.

#### **FIBROUS GLASS**

Inhalation hazard - Acute: mechanical irritation of mouth, nose, throat. Itching and irritation of upper respiratory tract.

Other hazards - transient mechanical irritation to skin. Direct contact with eyes will cause mechanical irritation. May cause unpleasant deposits in eyes, ears and nasal passages. IARC categorizes "continuous filament glass dust" as not classifiable relative to human carcinogenicity (Group 3). However, if the end product is finely ground, a fibrous glass dust may result, which IARC classifies as "possibly carcinogenic to humans" (Group 2B).

### **6. FIRST AID**

Inhalation: Move to fresh air. Obtain medical attention.

Eyes: Flush with water to remove particulate. Obtain medical attention.

Skin: Wash thoroughly with soap and water. If persistent irritation develops, obtain medical attention.

Ingestion: Obtain medical attention.

### **7. SPECIAL PRECAUTIONS AND SPILL / LEAK PROCEDURES**

Handling and Storage : Shipping and storage may result in accumulation of dust in shipping containers. If this occurs, dispose of the container in an airtight polyethylene bag (see disposal instructions below) or remove dust by vacuuming or wet mopping. Vacuums used for this purpose should be equipped with HEPA filters. Do not use compressed air to blow dust from storage containers.

Release or Spill : If a release of dust occurs during machining, abrading, or riveting, remove dust by vacuuming or wet mopping. Vacuums used for this purpose should be equipped with HEPA filters. Do not use compressed air to blow dust from the workplace.

Waste Disposal : Disposal of solid waste is regulated by federal and state law. Waste should be placed in airtight containers, and disposed of properly. Contact local regulatory agency for guidance.

## 8. PERSONAL PROTECTION AND CONTROL

**Respiratory Protection :** Use NIOSH-approved respirator if exposure to dust, vapors, or fumes in concentrations exceeding PEL's or TLV's is possible. (See 29 CFR 1910.134 for respiratory protection standards)

**Ventilation :** Any operations which may produce dust, including machining, grinding, riveting, or abrading of this product, should be adequately exhausted to prevent inhalation of dust.

**Personal Protective Equipment :** Suitable respiratory protection should be worn if dust exposure is possible. All regulations and safe practices related to the use of respiratory protection must be observed. Refer to OSHA standards and NIOSH guidelines. If skin irritation occurs, gloves and other protective garments may be worn.

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