

## D3910 Safety Data Sheet

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION OF THE COMPANY

**PRODUCT:** D3910 Friction Material  
**COMMON USES:** Brakes/Clutch Lining  
**SUPPLIER:** Ferotec Friction Ltd  
 Unit C Greenfield Business Park  
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### 2. COMPOSITION/INFORMATION ON INGREDIENTS

This product contains a number of ingredients, all of which have become sealed in a fatty acid binder resulting in a low probability of dust/fibre release.

Chemical Name	CAS No	Concentration (%)	OES /MEL	Exposure limit	Risk Phrases
Synthetic Rubber	67254-76-6	< 40	0.6 mg/m <sup>3</sup> fume 6 mg/m <sup>3</sup> dust	8 hour TWA	
Glass Fibre	287922-11-6	< 6	5 mg/m <sup>3</sup> dust 2 fibres ml <sup>-1</sup>	8 hour TWA	R38, R40
Para-aramid fibre	24938-64-5	< 1	0.5 fibres ml <sup>-1</sup>	8 hour TWA	

### 3. HAZARD IDENTIFICATION

Exposure to dust created by handling this product should be kept a low as reasonably practicable and limits as above are observed. Handling of this product may cause skin irritation. No health risks have so far been known in cases where this product has been handled and processed properly.

### 4. FIRST AID MEASURES

**Inhalation** Avoid breathing dust. In the event of excessive inhalation of dust, remove the individual to fresh air. Obtain medical advice.  
**Skin Contact** Clean skin with soap and water. Obtain medical advice if irritation persists.  
**Eye Contact** Irrigate with clean water for at least 15 minutes. Obtain medical advice if irritation persists.  
**Ingestion** It is not normally considered that the product will be ingested, but if small quantities are ingested, seek medical advice.

### 5. FIRE-FIGHTING MEASURES

**Extinguishing Media** Any standard extinguishing media may be used.  
**Protective Equipment** Fire fighters, and others exposed, wear self-contained breathing apparatus.  
**Exposure Hazards** When heated to very high temperatures, may give off smoke and decomposition products which may contain toxic compounds.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions** Use personal protective equipment as recommended in section 8. Avoid breathing dust.  
**Environmental Precautions** No special precaution required  
**Methods for Cleaning up** Remove any dust generated by vacuum or wet cloth.

### 7. HANDLING AND STORAGE

**Handling** Excessive handling may generate dust. Use adequate ventilation to keep dust concentration below stipulated standard.  
**Storage Conditions** Prevent exposure to temperatures above 100°C.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering measures** Use local exhaust ventilation to maintain airborne dust levels to below established exposure standard.

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### Personal Protection

Respiratory Protection  
Hand Protection

Wear suitable protection if exposure limits are exceeded.  
Wear impervious gloves.; use suitable barrier creams and maintain good hygiene standards.

Eye Protection  
Skin Protection

Wear safety glasses when machining or abrading the product.  
Wear overalls of close weave material



### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Grey/black solid	<b>Colour</b>	Grey/black
<b>pH-value</b>	Not applicable	<b>Melting point/range</b>	Not applicable
<b>Explosive properties</b>	As supplied, does not present an explosion hazard. however, dust produced from grinding operations presents an explosion hazard.		
<b>Density</b>	1.95 to 2.05 g/cm <sup>3</sup>	<b>Autoflammability</b>	> 350°C
<b>Flammability</b>	Does not support combustion but will burn at elevated temperatures. Will burn when finely divided.		
<b>Odour</b>	Characteristic friction material odour	<b>Boiling point/range</b>	Not applicable
<b>Flash point</b>	Not applicable	<b>Vapour pressure</b>	Not applicable
<b>Solubility in water</b>	Not applicable	<b>Viscosity</b>	Not applicable

### 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable
<b>Conditions to avoid</b>	Prolonged exposure to elevated temperatures >300°C
<b>Materials to avoid</b>	Not applicable
<b>Hazardous decomposition products</b>	CO, CO <sub>2</sub> , possibility of styrene, butadiene and cyanides
<b>Hazardous Reactions</b>	None - relatively inert

### 11. TOXICOLOGICAL INFORMATION

#### Short Term Effects

<b>Inhalation</b>	May cause irritation to upper respiratory tract
<b>Ingestion</b>	Not established
<b>Skin Contact</b>	May cause temporary irritation
<b>Eye Contact</b>	May cause irritation

#### Chronic Effects

<b>Inhalation</b>	Para-aramid fibres of respirable dimensions ( <i>fibres with diameters &lt;3.0µm that are capable of entering the respiratory system</i> ) are produced from harsh treatment of larger fibres e.g. by abrading the product. Animal studies have shown that high concentrations of para-aramid fibres should be regarded a potentially harmful to man. The glass fibre present in this product is not classified as respirable. Assessment of toxicity of man-made mineral fibres has identified the fact that fibres which cannot enter the respiratory system will not be a factor in the induction of respiratory disease.
<b>Ingestion</b>	Not established
<b>Skin Contact</b>	Not established
<b>Eye Contact</b>	Not established
<b>Carcinogenicity</b>	US Environmental Protection Agency classified para-aramid fibre as a possible human carcinogen. The International Agency for Research on Cancer designated glass fibre as Group 3 "not classifiable as to human carcinogenicity".

### 12. ECOLOGICAL INFORMATION

<b>Bioaccumulation</b>	Not established
<b>Mobility</b>	Not established
<b>Ecotoxic effects</b>	Not established
<b>Biodegradation</b>	Not inherently biodegradable

### 13. DISPOSAL CONSIDERATION

<b>Product</b>	Seal all dust created by abrading in impervious bags and dispose to a suitable licensed landfill site.
<b>Contaminated Packaging</b>	Remove all packaging for recovery or incinerate/landfill

### 14. TRANSPORT INFORMATION

Not classified as dangerous for conveyance. use any container of suitable size and length.

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### 15. REGULATORY INFORMATION

<b>EEC Classification</b>	Not classified
<b>Risk Phases</b>	Irritating to skin (R38) Possible risks of irreversible effects (R40)
<b>Safety Phrases</b>	Wear suitable protective clothing and gloves (S36/37)
<b>Refer to</b>	Health & Safety at Work Act 1974 Control of Substances hazardous to Health (COSHH) Regulations 1994
<b>Please note</b>	This Safety Data Sheet does not constitute the user's own assessment of workplace risk as required by other health and safety legislation.

### 16. ADDITIONAL INFORMATION

<b>Further Information</b>	Health and Safety Executive Guidance Note <i>EH40/2000- Occupational Exposure Limits 2000</i> Health and Safety Executive Guidance Note <i>EH46- Man-Made Mineral Fibres</i> Health and Safety Executive Guidance Note <i>MDHS14 - General Methods for the Gravimetric Determination of Respirable and Total Inhalable Dust</i> Health and Safety Executive Guidance Note <i>MDHS59 - Man-Made Mineral Fibre</i>
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This information is based on our present knowledge and is accurate at the date of issue, to the best knowledge of Ferotec Friction Ltd. However, it shall not constitute a guarantee for any specific product featured and shall not establish a legally contractual relationship and condition or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with handling, storage, use or disposal of the product.

For any additional information, contact Ferotec Friction Ltd.