# **Ferotec Friction Ltd**

# **D2013 Safety Data Sheet**

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

PRODUCT: D2013 Friction Material
COMMON USES: Brakes/Clutch Lining
SUPPLIER: Ferotec Friction Ltd

Unit C Greenfield Business Park

Bagillt Rd Holywell

Flintshire CH8 7HJ United Kingdom Tel: +44 1352 710360 Fax: +44 1352 719368

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### 2. COMPOSITION/INFORMATION ON INGREDIENTS

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

Chemical Name	CAS No	Concentration (%)`	OEL (mg/m³)	Exposure limit
Barium Sulphate	7727-43-7	5-7	Total Inhalable 10 mg/m <sup>3</sup> Respirable 4 mg/m <sup>3</sup>	8 hour TWA
Calcium Carbonate	1317-65-3	<1	Total Inhalable 10 mg/m <sup>3</sup> Respirable 4 mg/m <sup>3</sup>	8 hour TWA
Graphite	7782-42-5	12-14	Total Inhalable 10 mg/m <sup>3</sup> Respirable 4 mg/m <sup>3</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.

## 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

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** Liable to corrode, store in a dry place.

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#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

exposure standard.

**Personal Protection** 

Respiratory Protection Wear suitable protection if exposure limits are exceeded.

Hand Protection Wear impervious gloves.; use suitable barrier creams and maintain good hygiene

standard

Eye Protection Wear safety glasses when machining or abrading the product.

Skin Protection Wear overalls of close weave material

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance<br/>pH-valueDense solidColour<br/>Melting point/rangeBlack<br/>Not applicableExplosive propertiesAs supplied, does not present an explosion hazard, however, dust produced from grinding operations

presents an explosion hazard.

3.30 to 3.50 g/cm<sup>3</sup> Autoflammability Density Does not support combustion but will burn at elevated temperatures. Will burn when finely divided. Flammability Odour Characteristic friction material odour Boiling point/range Not applicable Flash point Not applicable Vapour pressure Not applicable Not applicable Solubility in water Viscosity Not applicable

### 10. STABILITY AND REACTIVITY

Stability Stable

Conditions to avoid Prolonged exposure to elevated temperatures >300°C

Materials to avoid Not applicable

**Hazardous decomposition products**CO, CO<sub>2</sub>, phenols, formaldehyde Reacts with acids and H<sub>2</sub> gas.

### 11. TOXICOLOGICAL INFORMATION

Short Term Effects

Inhalation May cause irritation to upper respiratory tract

Ingestion Not established

Skin Contact May cause temporary irritation

Eye Contact May cause irritation

Chronic Effects

InhalationNot establishedIngestionNot establishedSkin ContactNot establishedEye ContactNot establishedCarcinogenicityNot established

## 2. ECOLOGICAL INFORMATION

Bioaccumulation Not established Mobility Not established Ecotoxic effects Not established

Biodegradation Not inherently biodegradable

### 13. DISPOSAL CONSIDERATION

**Product** Seal all dust created by abrading in impervious bags and dispose to a suitable

licensed landfill site.

Contaminated Packaging 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

EEC Classification Not classified

Refer to Health & Safety at Work Act 1974

Control of Substances hazardous to Health (COSHH) Regulations 1994

ease note 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

Further Information Health and Safety Executive Guidance Note

EH40/2000 Occupational Exposure Limits 2000

Health and Safety Executive Guidance Note

EH46- Man-Made Mineral Fibres

Health and Safety Executive Guidance Note

MDHS14 - General Methods for the Gravimetric Determination of Respirable and Total

Inhalable Dust

Health and Safety Executive Guidance Note MDHS59 - Man-Made Mineral Fibre

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.

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