Ferotec Friction Ltd

MZAF Safety Data Sheet

I. IDENTIFICATION OF THE SUBSTANCE/PREPARATION OF THE COMPANY

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

Unit C Greenfield Business Park

Bagillt Rd Holywell

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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 binderresulting in a low probability of dust/fibre release.

Chemical Name	CAS No	Concentration (%)`	OES /MEL	Exposure limit	Risk Phrases
Glass Fibre	287922-116	< 30	2 fibres/ml, 5mg/m³ dust	8 hour TWA	R38, R40
Copper	7440-50-8	< 6	o.2 mg/m³ fume 1mg/m³ dust	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

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.

Issue 3 May 11 Page 1 of 3

Ferotec Friction Ltd

MZAF Safety Data Sheet

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

standards.

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

Skin Protection Wear overalls of close weave material

9. PHYSICAL AND CHEMICAL PROPERTIES

AppearanceStraw solidColourYellowpH-valueNot applicableMelting point/rangeNot applicableExplosive propertiesAs supplied, does not present an explosion hazard. however, dust produced from grinding operations

presents an explosion hazard.

Density 1.30 to 1.40 g/cm³ Autoflammability Flammability Does not support combustion but will burn at elevated temperatures. Will burn when finely divided. Characteristic friction material odour Odour Boiling point/range Not applicable Vapour pressure Not applicable Flash point Not applicable Solubility in water Not applicable 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, CO₂, phenol and formaldehyde

Hazardous Reactions None - relatively inert

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

Inhalation The glass fibre present in this product is not classified as respirable (fibres with

diameters <3.0µm that are capable of entering the respiratory system). 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 for the induction of respiratory

diseases.

IngestionNot establishedSkin ContactNot establishedEye ContactNot established

Carcinogenicity The International Agency for Research on Cancer designated glass fibre a Group 3

"not classifiable as to human carcinogenicity".

12. ECOLOGICAL INFORMATION

BioaccumulationNot establishedMobilityNot establishedEcotoxic effectsNot 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.

Issue 3 May 11 Page 2 of 3

Ferotec Friction Ltd

MZAF Safety Data Sheet

5. REGULATORY INFORMATION

EEC Classification Not classified
Risk Phases Irritating to skin (R₃8)

Possible risks of irreversible effects (R40)

Safety Phrases Wear suitable protective clothing and gloves (S₃6/₃7)

Refer to Health & Safety at Work Act 1974

Control of Substances hazardous to Health (COSHH) Regulations 1994

Please 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.

Issue 3 May 11 Page 3 of 3